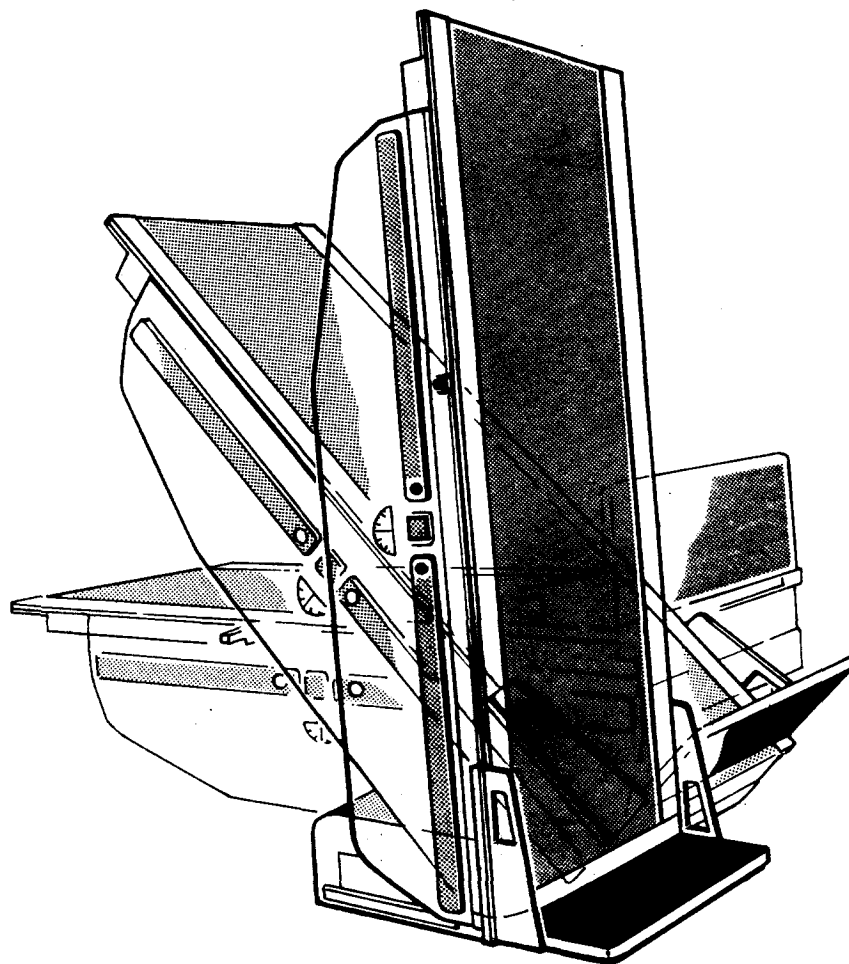


Mounting instructions

UT 2000



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1. Specifications

1.1 General Safety Notes

The equipment may only be used in rooms which comply with the relevant legislation and recommendations concerning electrical safety in rooms used for medical purposes, e.g. VDE Standard 0107 and/or IEC/SC 62 A concerning provision of an additional protective ground terminal for equipotential connection.

The equipment is not suitable for use in the presence of flammable gases or vapor. Always disconnect the equipment from the power before cleaning or disinfecting. Do not allow water or other liquids to enter the equipment, as they may cause short circuits or corrosion. Remember that some disinfectants vaporize to form explosive mixtures, and that if such disinfectants are used, the vapor must be allowed to dissipate before the equipment is returned to use.

No work may be performed on parts carrying a voltage higher than 42 V.

The equipment must not be used if any mechanical, electrical or radiation-emitting component is defective, or if the procedures described in the maintenance schedule have not been carried out.

Changes and additions to the equipment may only be carried out in accordance with the governmental regulations as well as with the accepted standards of good practice.

This equipment requires proper handling together with routine service and maintenance, in order to ensure safe and efficient operation.

WARNING:

For continued safe use of this equipment, it is necessary that the instructions contained herein be followed. This manual should be studied carefully before using the equipment and kept at hand for quick reference. This equipment must be used by qualified personnel and only after they have been trained to use the equipment.

WARNING:

It is the responsibility of the operator to ensure safety of the patient while the machine is in operation by visual check, proper patient positioning, and use of the devices that are provided.

WARNING:

During motions, watch all parts of the system to see that there is no interference and no possibility of collision with the patient or with other equipment. It is your responsibility as operator to release the "preparation" button and stop the motion before injury is done to the patient or other personnel, or damage is done to the equipment.

1.2 Weight of the Unit

Table 295 kg (650 lbs)
Foot rest 11 kg (24.3 lbs)

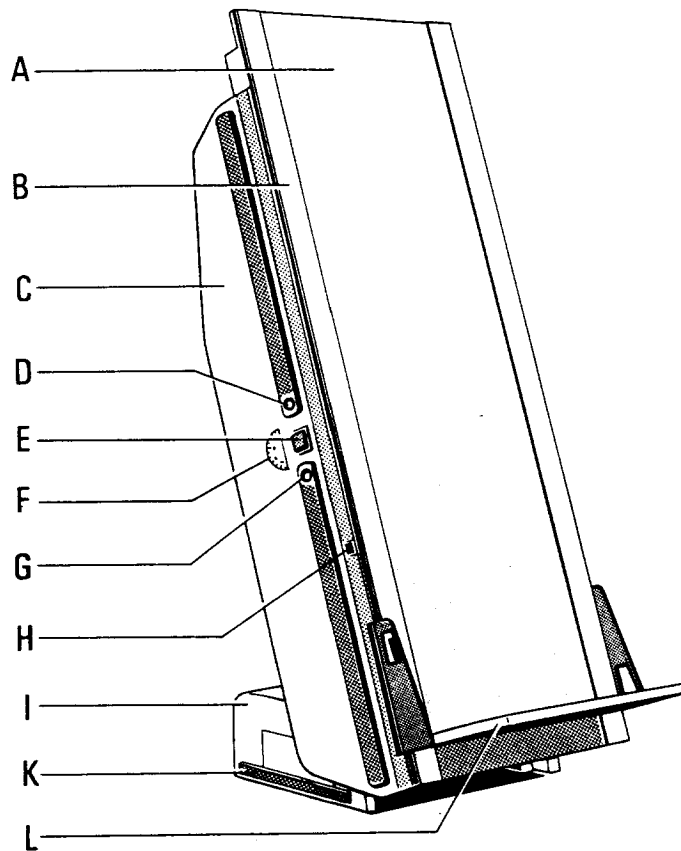
1.3 Dimensions

Table 2200 x 810 x 810 mm (86.61" x 31.89" x 31.89")
Foot rest 900 x 410 x 350 mm (35.4" x 16.1" x 13.77")

1.4 Shipping weight and Dimensions

Table with foot rest 1 crate 240 x 100 x 100 cm
(94.5" x 39.37" x 39.37")
appr. 484 kg (appr. 1067 lbs)

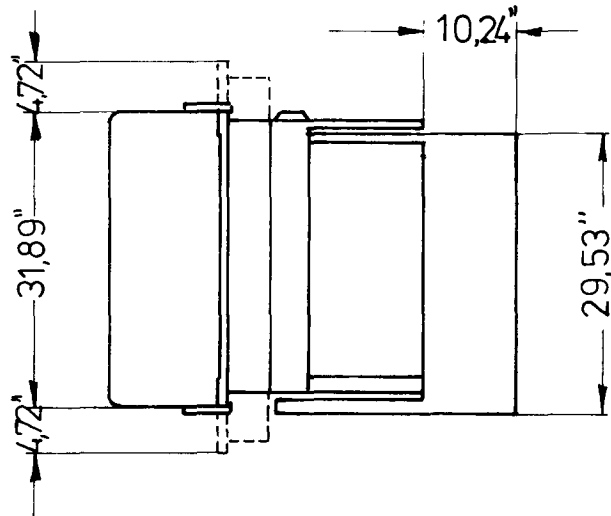
1.5 Component Designations



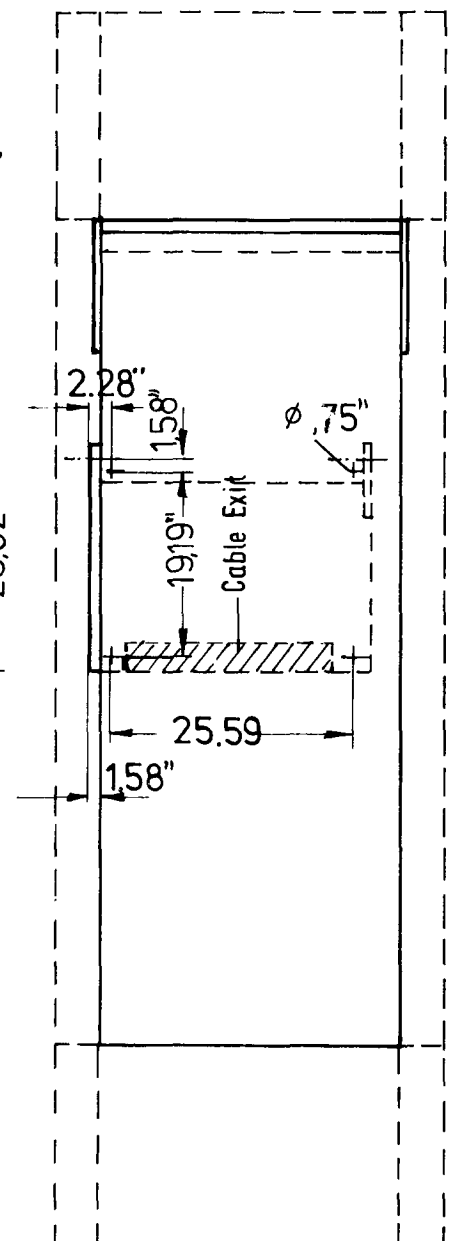
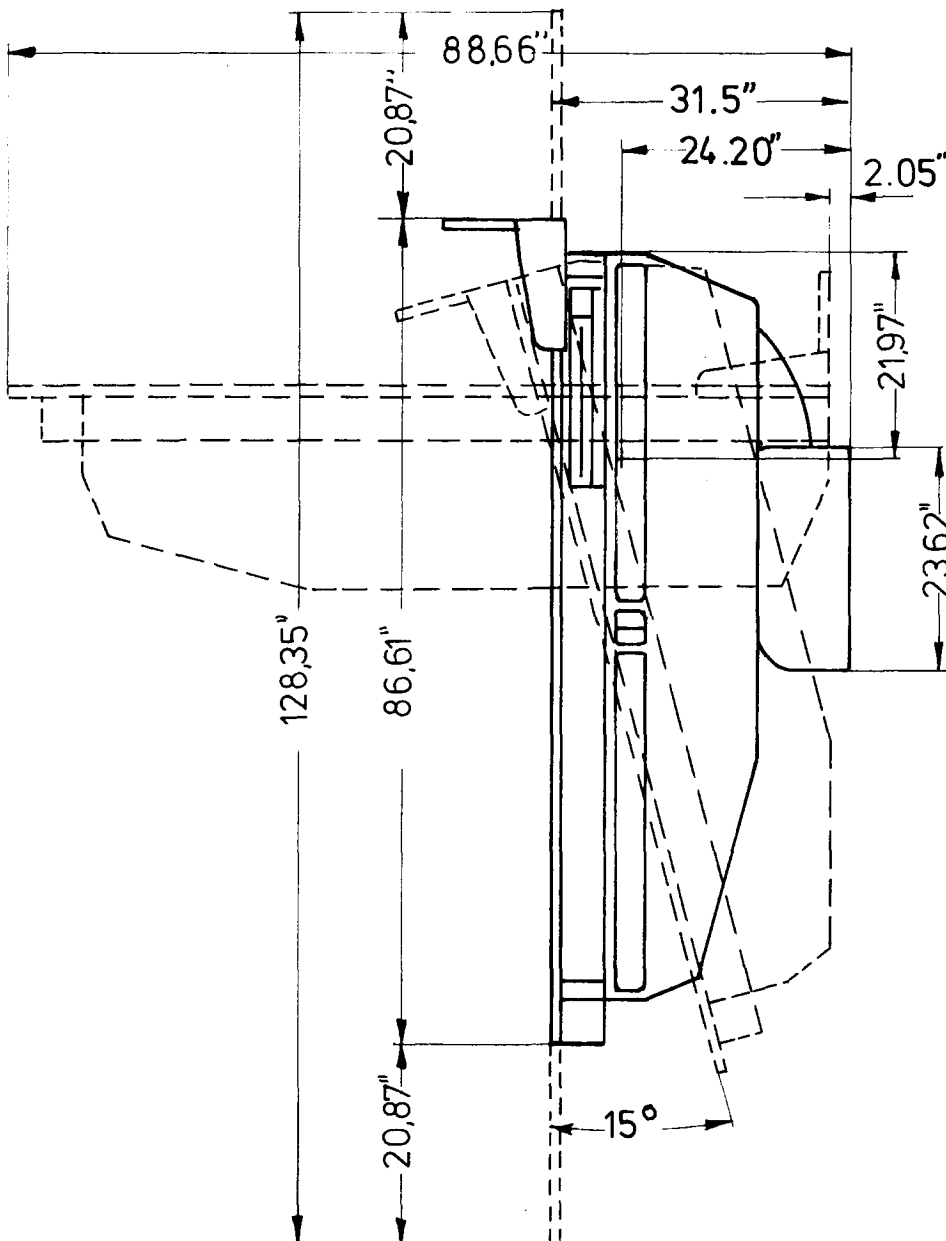
A	Table top
B	Profile rails
C	Table
D	Pushbutton
E	Switch for table movement
F	Angle indicator
G	Emergency stop
H	Handle for Bucky movement
I	Table base
K	Footswitch
L	Foot rest

1.6 Dimensional Drawings

mm = inch



3260	=	128.35
2252	=	88.61
2200	=	86.14
810	=	31.89
800	=	31.50
750	=	29.52
650	=	25.59
610	=	24.01
600	=	23.62
560	=	22.05
558	=	21.97
530	=	20.87
487,5	=	19.19
260	=	10.24
120	=	4.72
60	=	2.36
58	=	2.28
52	=	2.05
40	=	1.57



1.7 Power Connection

Power cable: 3 x 2.5 mm² (IL/N/PE)
Nominal voltage: 115 / 230 VAC selectable
Frequency: 50 or 60 Hz
Nominal current: 20 / 10 A (fuse)
Power rating: 1 kVA

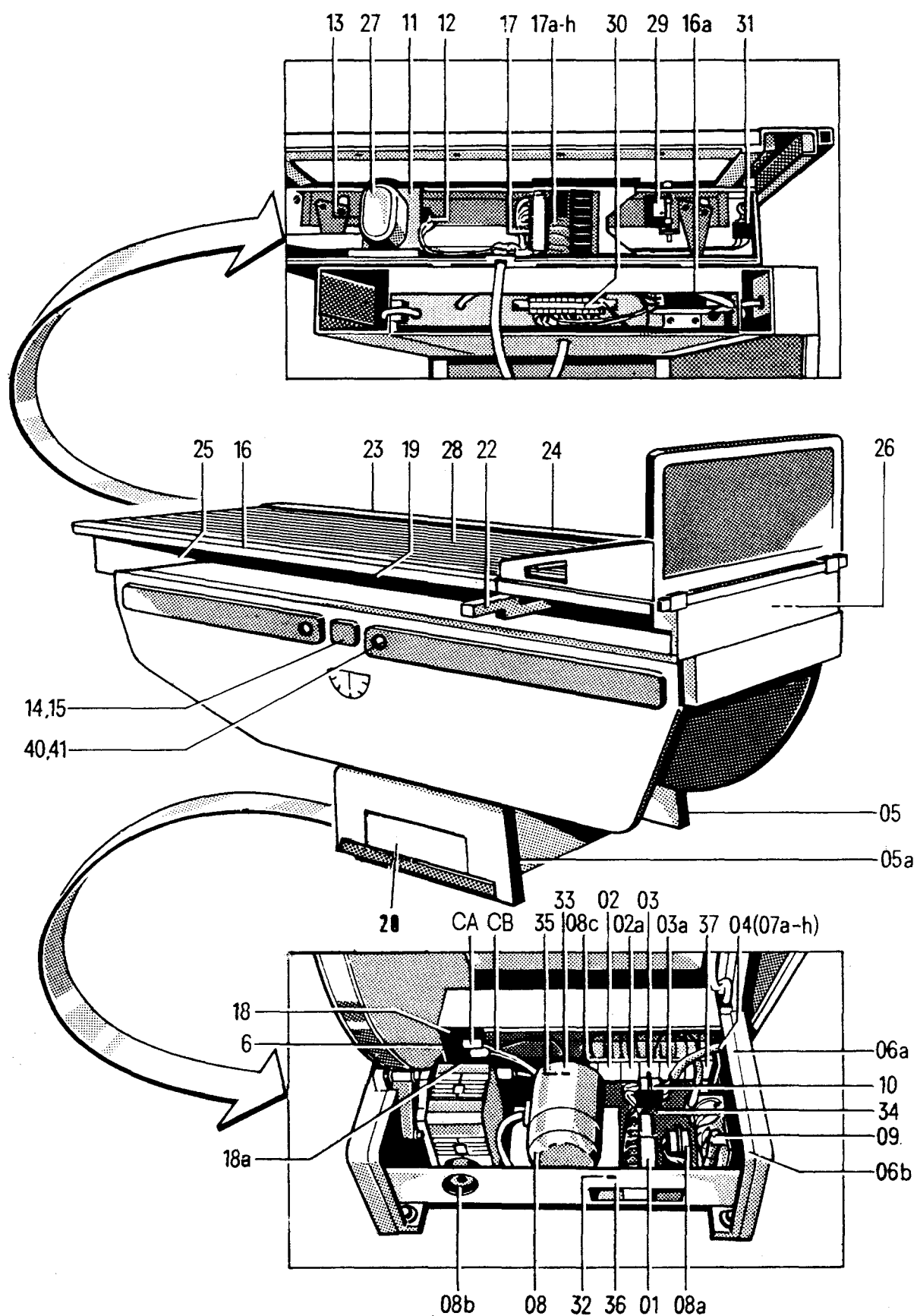
1.8 Special Tools Required

Torque wrench 50 Nm (5 mkg)
Masonry drill, 12 and 15 mm diameter

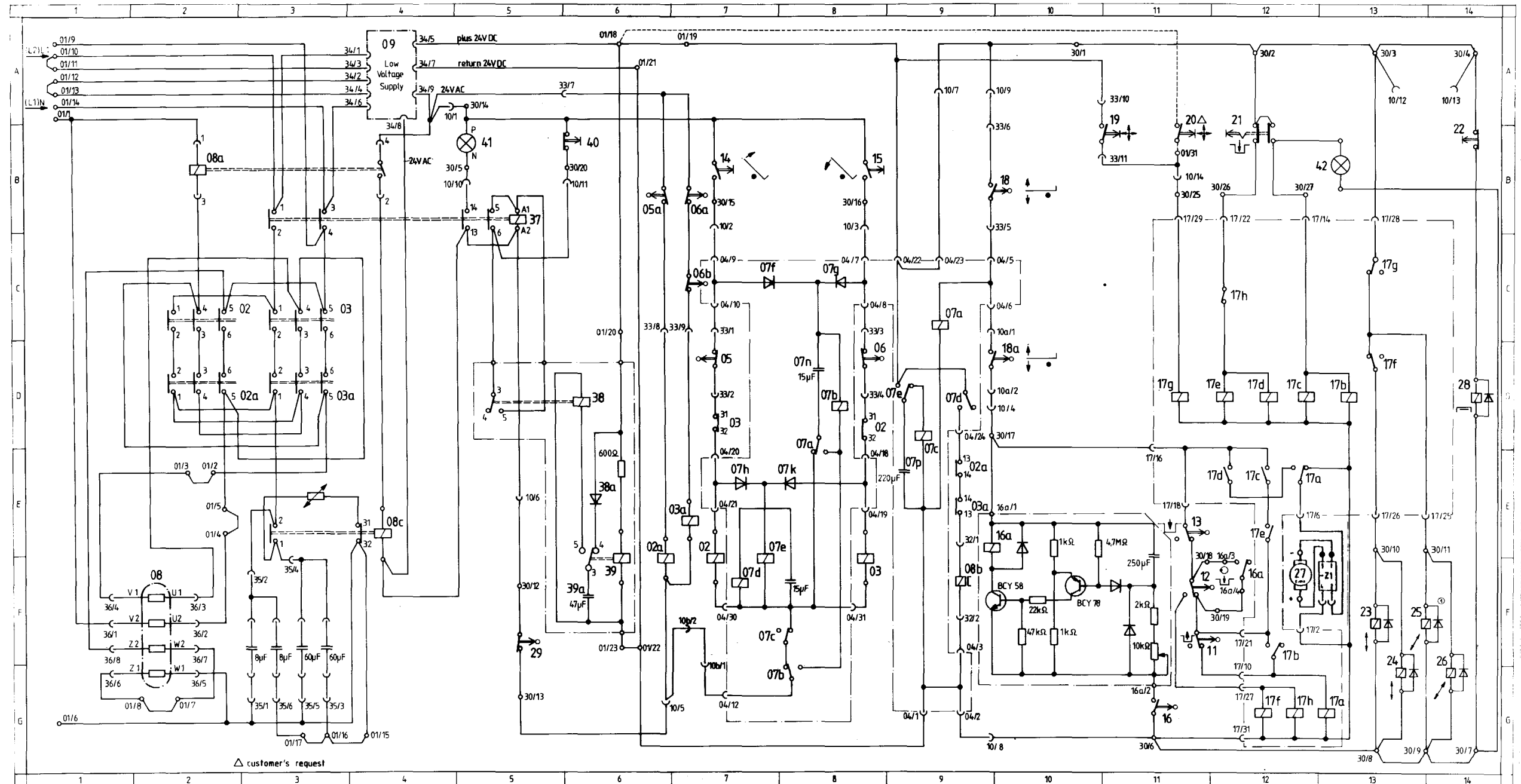
1.9 Measuring Instruments Required

Machinist's water level
Spring scale 0 - 12 kg

1.10 Component Designation

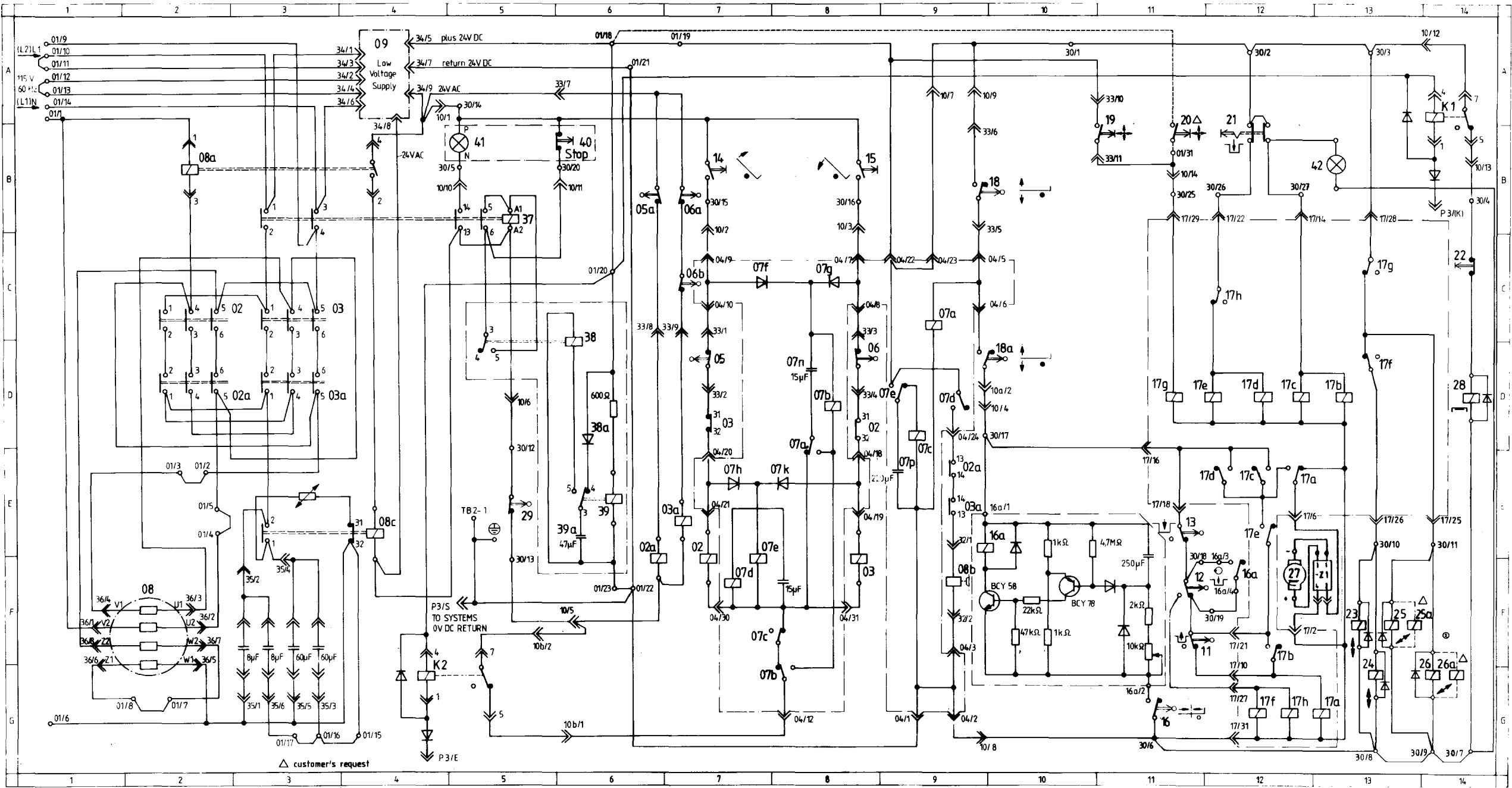


1.11 Schematics



Component	Designation	10b	Connector in base	23/24	Brake solenoid: table top longitudinal
01	Terminal strip: base	11	Limit switch:table top free	25/26	Brake solenoid: table top lateral
02/02a	Contactor: raise	12	Limit switch:table top lock prepared	27	Motor: table top lock
03/03a	Contactor: tilt	13	Limit switch:table top locked	28	Brake solenoid: Bucky carriage
04	PCB connector (in base)	14	Push button:raise table	29	Switch for tilt lock
05	Limit switch: raise	15	Push button:tilt table	30	Terminal strip at head end
05a	Safety switch: raise	16	Switch:table top in locked position	31	Terminal strip in control handle
06a/06b	Safety switch: tilt	16a	Relay: table top in locked position Number	32	Connector for brake 10 Connector in base
07a-p	Relays on PC board (in base)	17	PCB connector	33	Connector for limit switch (05,05a,06,06a,06b)
08	Motor for tilt drive	17a-h	Components of PC-Board (for locked position)	34	Connector for power supply (09)
08a	Motor start relay (klixon)	18	Switch: horizontal position	35	Connector for capacitors
08b	Brake for tilt drive (gear)	18a	Switch: horizontal position	36	Connector for motor (08)
08c	Auxiliary start relay	19	Footswitch: release brake solenoids	37	Contactor: emergency stop
09	Low voltage supply	20	Footswitch	38/39	Relay: emergency stop
10a	Connector in base	21	Pushbutton: lock/ unlock table top	40	Emergency stop
		22	Push button: Bucky carriage 06 Limit switch: tilt	41	Lamp in emergency stop

1.11 Schematics



Component	Designation		
		11	Limit switch:table top free
		12	Limit switch:table top lock prepared
01	Terminal strip: base	13	Limit switch:table top locked
02/02a	Contactor: raise	14	Push button:raise table
03/03a	Contactor: tilt	15	Push button:tilt table
04	PCB connector (in base)	16	Switch:table top in locked position
05	Limit switch: raise	16a	Relay: table top in locked position Number
05a	Safety switch: raise	17	PCB connector
06a/06b	Safety switch: tilt	17a-h	Components of PC-Board (for locked position)
07a-p	Relays on PC board (in base)	18	Switch: horizontal position
08	Motor for tilt drive	18a	Switch: horizontal position
08a	Motor start relay (klixon)	19	Footswitch: release brake solenoids
08b	Brake for tilt drive (gear)	20	Footswitch
08c	Auxiliary start relay	21	Pushbutton: lock/ unlock table top
09	Low voltage supply	22	Push button: Bucky carriage 06 Limit switch: tilt
10a	Connector in base	23/24	Brake solenoid: table top longitudinal
10b	Connector in base	25/26	Brake solenoid: table top lateral

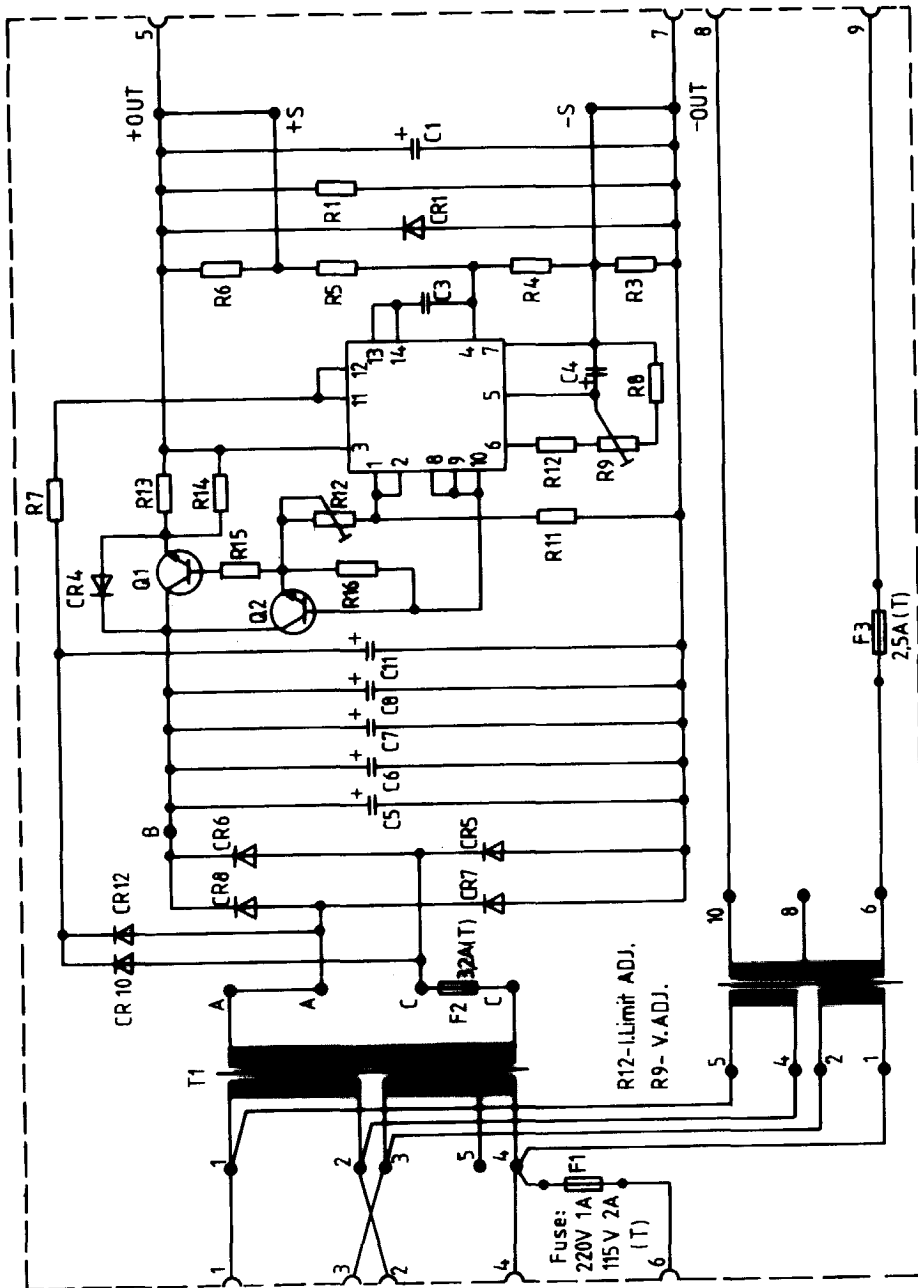
27	Motor: table top lock
28	Brake solenoid: Bucky carriage
29	Switch for tilt lock
30	Terminal strip at head end
31	Terminal strip in control handle
32	Connector for brake 10 Connector in base
33	Connector for limit switch (05,05a,06,06a,06b)
34	Connector for power supply (09)
35	Connector for capacitors
36	Connector for motor (08)
37	Contactor: emergency stop
38/39	Relay: emergency stop
40	Emergency stop
41	Lamp in emergency stop

TABLE CONNECTIONS FOR CONNECTOR - ITEM 37A - TO PICKER BUCKY TERMINAL BLOCKS "TB1" AND "TB2"

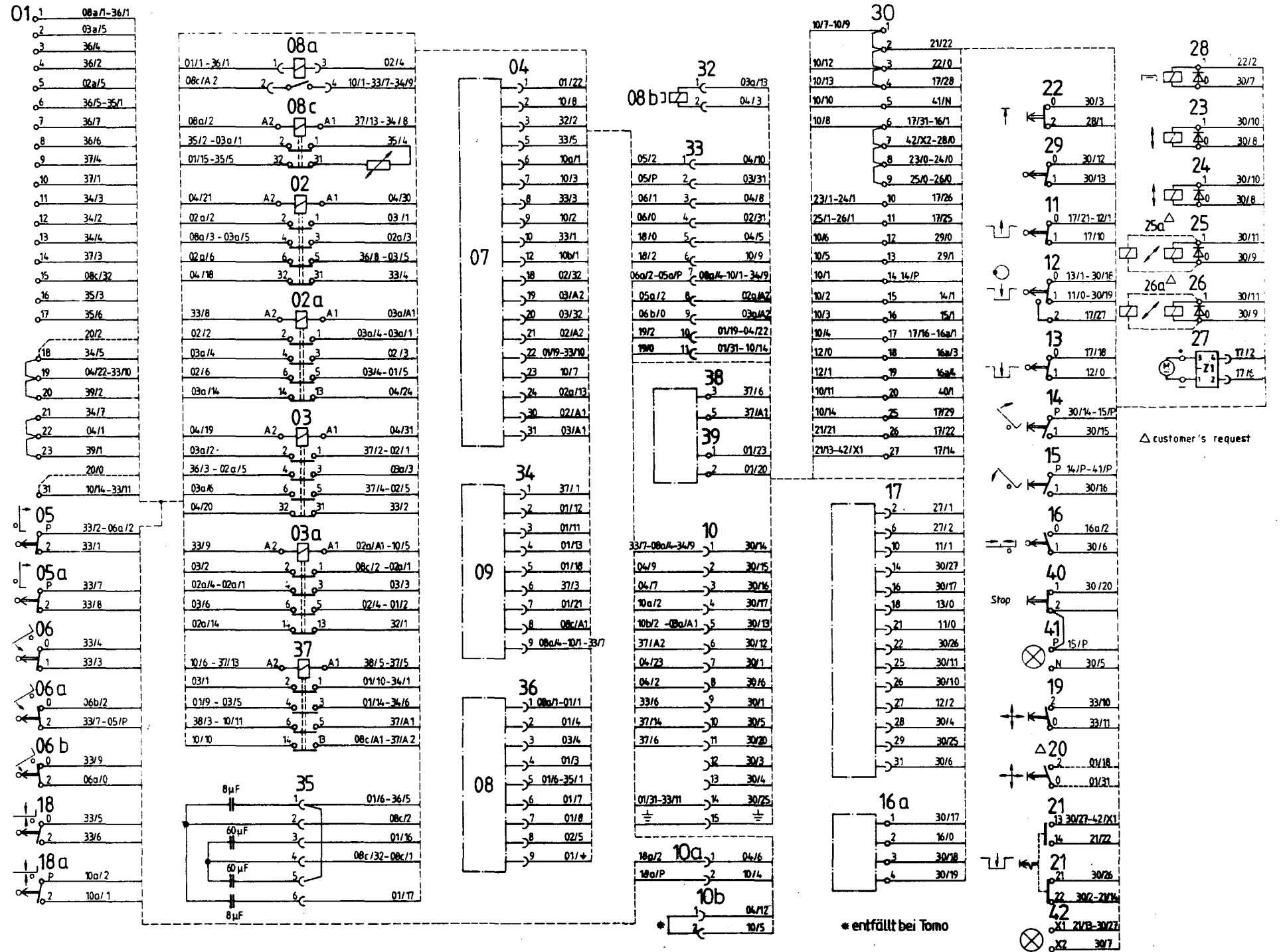
CONN. PIN	BUCKY TERM.	CONN. PIN	BUCKY TERM.
A	TB1-1	S	TB2-1
B	TB1-2	T	TB2-2
C	TB1-3	U	TB2-3
D	TB1-4	V	TB2-4
F	TB1-6	W	TB2-5
H	TB1-7	X	TB2-6
J	TB1-8	Y	TB2-7
K	TB1-9	Z	TB2-8
(n)	TB1-10	(a)	TB2-9
(p)	TB1-11	(b)	TB2-10
(r)	TB1-12	(d)	TB2-12
(s)	TB1-13	CC	GND STUD
(t)	TB1-14	S	*
EE	TB1-15	E	*
HH	TB1-16	AA	TB-17
BB	TB1-18		

* FOR THESE CONNECTIONS SEE THE SCHEMATIC DWG.

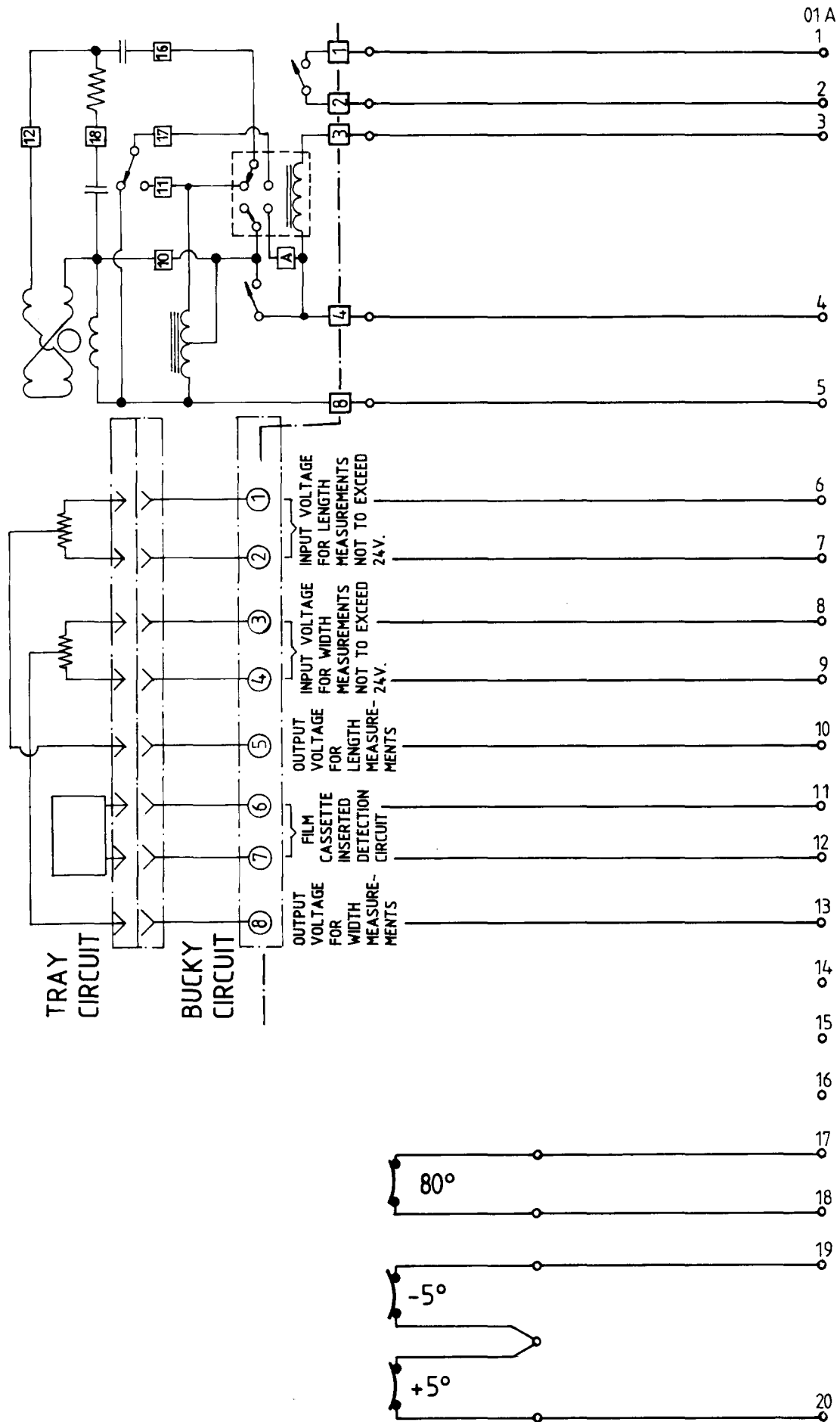
1.12 Low Voltage Supply



1.13 Wiring Diagram



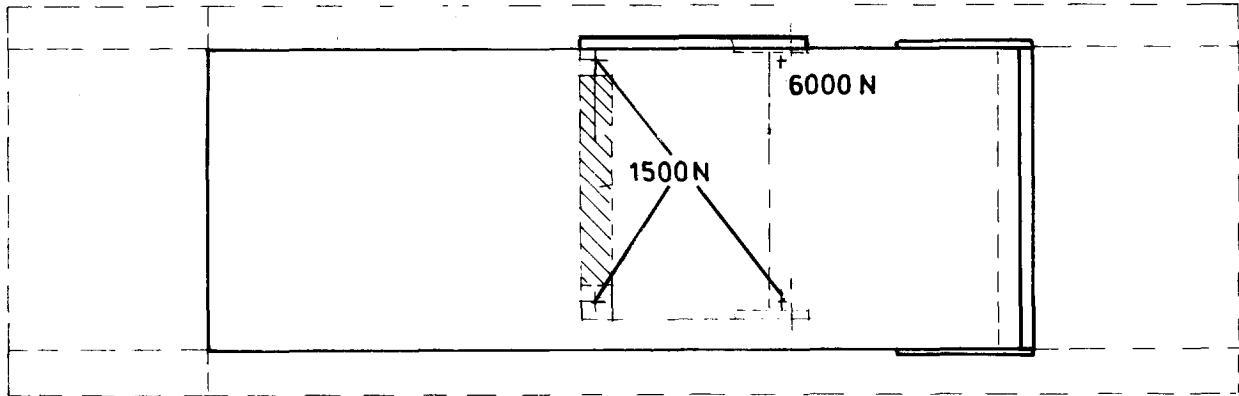
1.14 Interface



2. Mounting of Unit

2.1 Table Site Preparation

Drill holes for the floor mounting of the equipment as shown in dimensional drawing on page 6. (Accurately drill holes to suit bolt anchors used.) (Mounting holes of the unit 19mm diameter)



Operating side

The mounting bolts must be suitable for tensile strength as indicated in the drawing.

For exemple: 3 Liebig-safety bolts S12/65 and 1 Liebig-safety bolt S15/70N for concrete floor BN550 per DIN 1045.

Remove vinyl or carpet floor covering around the mounting points for the base of the unit. Lay shims (supplied with installation material) of the same thickness as the original floor covering at the mounting points.

2.2 Unpacking

When unpacking, check the contents of each box to insure that all items are located. Do not discard packing material, envelopes, boxes, etc., until all parts are accounted for. Remove the table base cover (Fig. 1/item 1) by removing the screws. Remove the shipping screws from the pallet. Note: Make sure unit can not tip over.

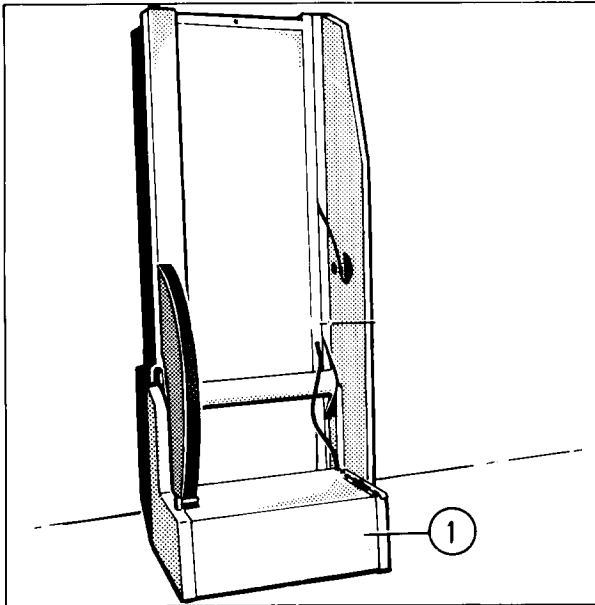


Fig. 1

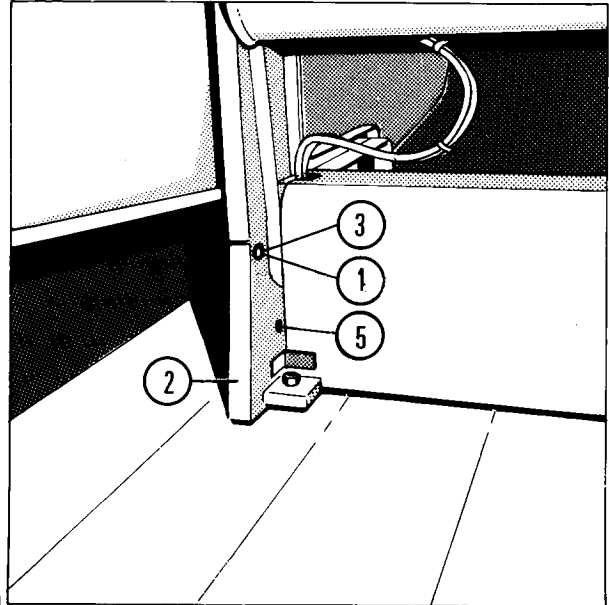


Fig. 2

2.3 Installation and Adjustment

Remove the end switches with housing (Fig. 2/item 2) on both sides of the table base. Therefore remove snap ring (item 3), take off the washer, pull out the bolt (item 4), turn out flat head screw (item 5), and remove the end switches with housings (item 2). Set up the unit on prepared level surface and install mounting bolts and washers on 4 places. Do not tighten at this time. Level the unit on frame structure. Compensate with shims under table base mounting points, if necessary. Carefully tighten the mounting bolts with a torque of 25 Nm (2.5 kpm). Note: the table base must not be distorted in any direction.

Reinstall the end switches with housings.

2.4 Mains Connection

The unit can run on 220 VDC or 110 VDC. Check schematics on page 9 for proper connection and jumpers.

2.5 Bucky Installation

Note: Bucky units made by various manufacturers can be used.

The unit has been prepared according to the order. The installation material required is included with the shipment. Remove the cover plate (Fig. 3/item 9) and the shipping screw (item 10) at the foot end side of the unit and cover plate (Fig. 5/item 8) at the head end side. Also remove the washer between table frame and mounting bracket. Move the Bucky carriage to the middle of the table.

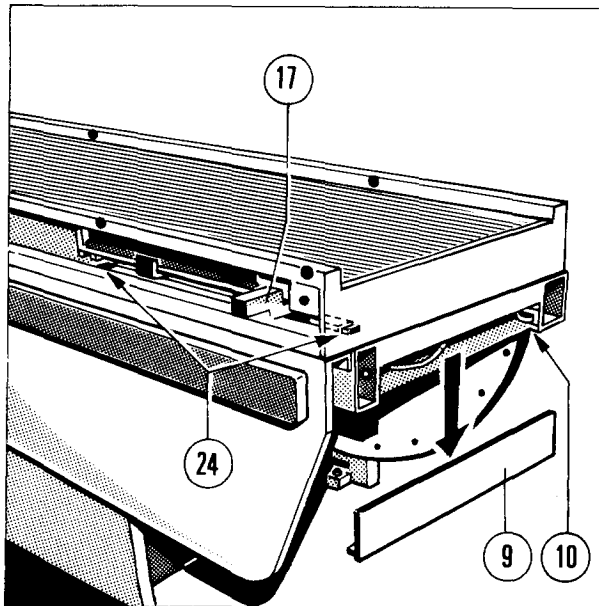


Fig. 3

Place the Bucky on a suitable area at the rear side of the unit. Establish electrical connections.

Liebel-Flarsheim Bucky

Mount trim cover as shown in (Fig. 4a/item 11). Place the Bucky (item 15) on the carriage (item 16) and fasten with screws (item 17).

Liebel-Flarsheim-Bucky

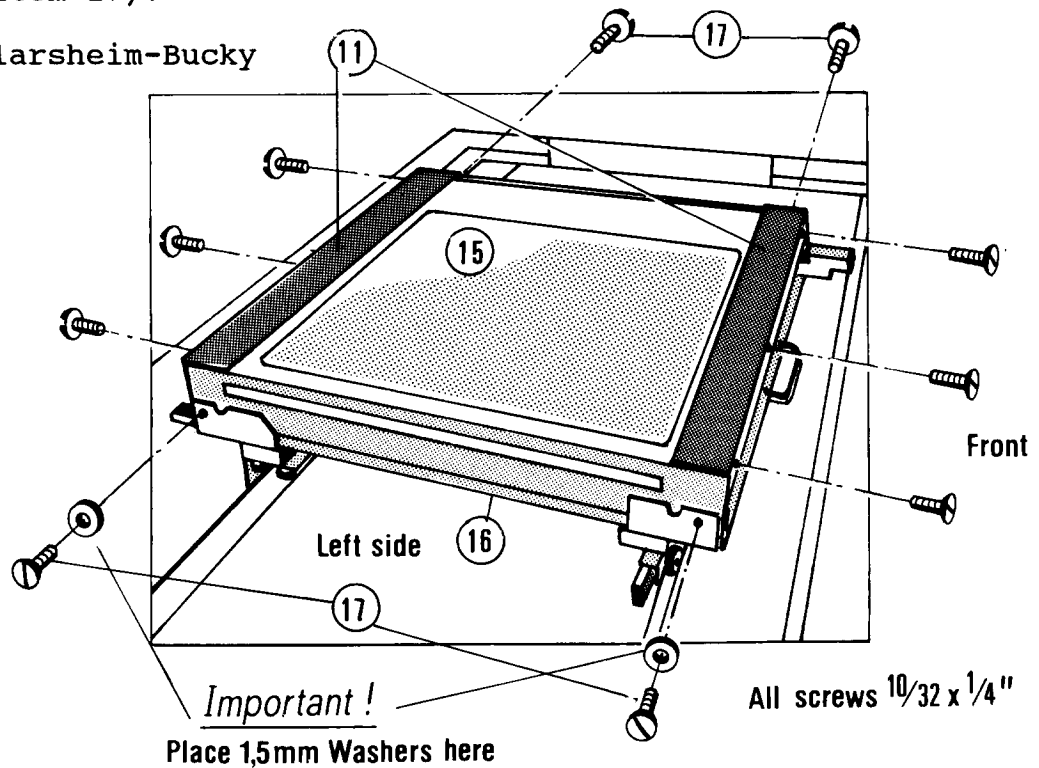
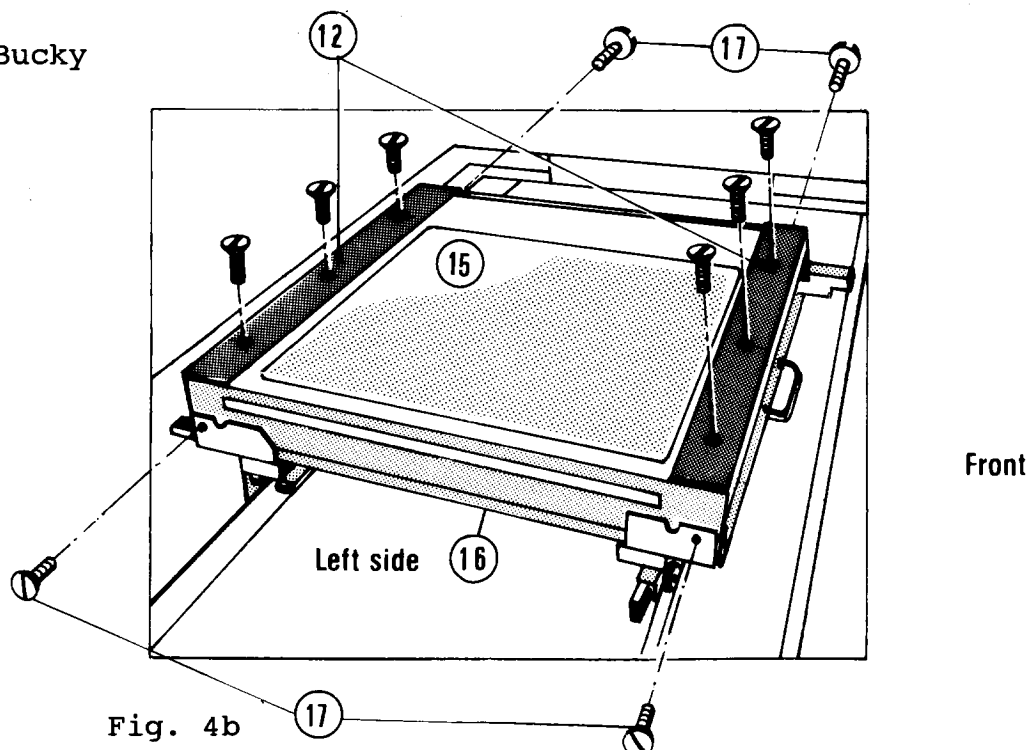


Fig. 4a

Philips Bucky

Mount trim covers (Fig. 4b/item 12). Place the Bucky (item 15) on the carriage (item 16) and fasten with screws (item 17).

Philips Bucky



Picker Bucky Mount trim covers (Fig. 4c/item 13). Place the Bucky (item 15) on the carriage (item 16), insert spacers (item 14) between Bucky and mounting brackets and fasten with screws (item 17).

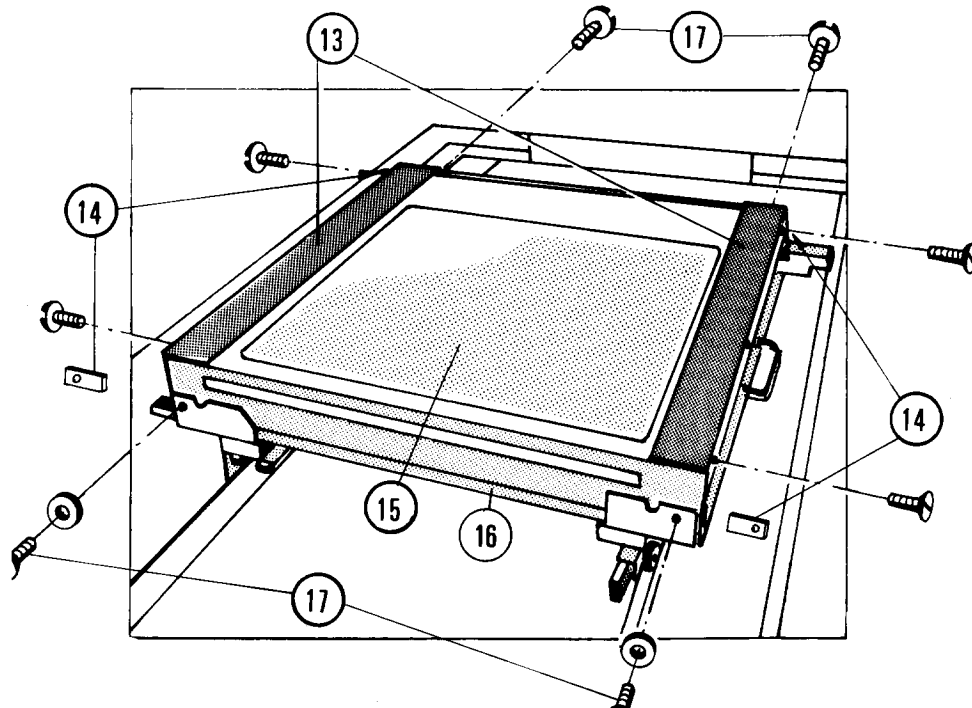


Fig. 4c

Siemens Bucky Remove the rear mounting bracket (Fig. 4d/item 18) and the push button housing (item 11). Guide the Bucky from the rear of the table onto the carriage (item 16) and push the Bucky all the way to the front. Reinstall the rear mounting bracket (item 18) and fasten the Bucky (item 15) with screws (item 17) to the carriage. Remount the push button housing (item 11).

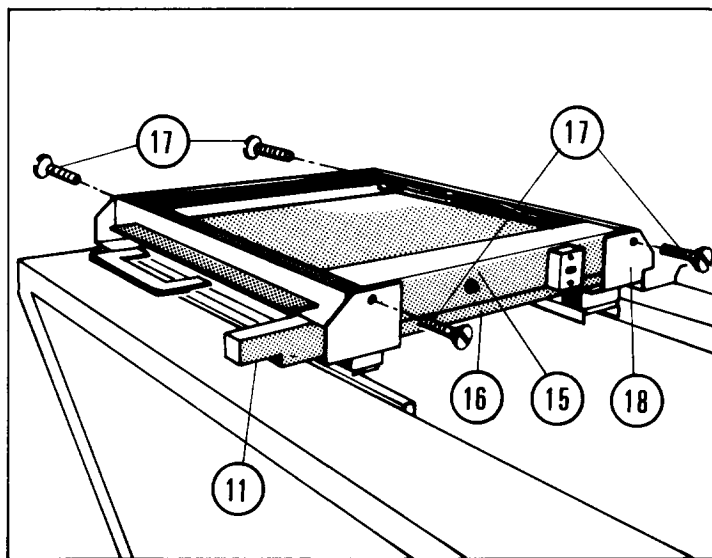


Fig. 4d

2.5.1 Counterweight Adjustment

Put the unit in vertical position and determine counterweight difference with a spring scale. Then bring unit into horizontal position. Disconnect the wire rope connector (Fig. 6/item 19) located underneath the Bucky carriage in downward direction after loosening the screws (item 20). Loosen clamping stud (Fig. 6/item 21) and remove the wire rope. Pull out at head end side in upward direction the return pulley (Fig. 5/item 22) with pedestal. Remove the counterweight (Fig. 5/item 23) and put it on a suitable place. Add or remove weight plates to compensate the weight difference determined with the spring scale. Reinsert counterweight and install return pulley (item 22) with pedestal. Establish wire rope connection and tighten with clamping stud (item 21).

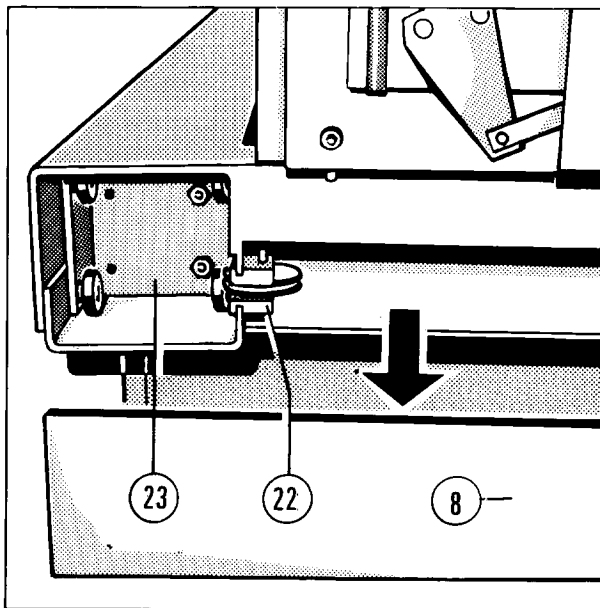


Fig. 5

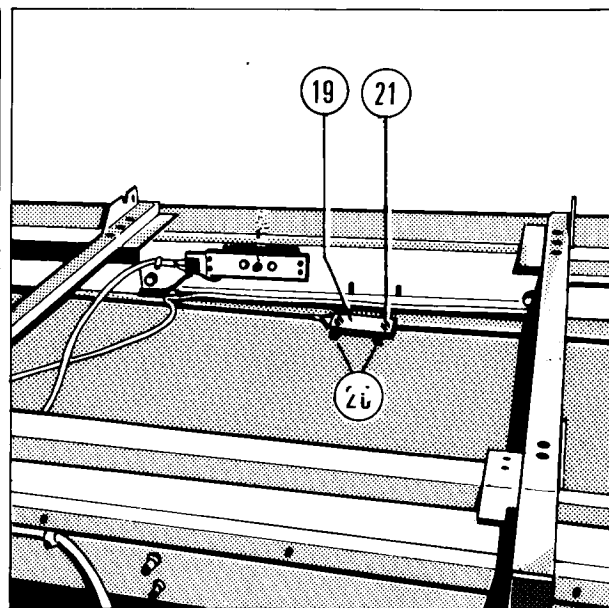


Fig. 6

Check the wire rope for proper tension. Therefore move the Bucky carriage all the way to the foot end position. Refer to (Fig. 7/item 25). Hook up spring scale (item 26) in the middle of the visible length of the wire rope. Maximum deflection of 8cm when applying a force of 3 kg. Readjust if necessary. Therefore loosen screws (Fig. 6/item 20) and unhook the wire rope connector (item 19). Adjust the wire rope tension by opening the clamping stud and pull thru the wire rope as necessary. Tighten clamping stud and remount the wire rope connector.

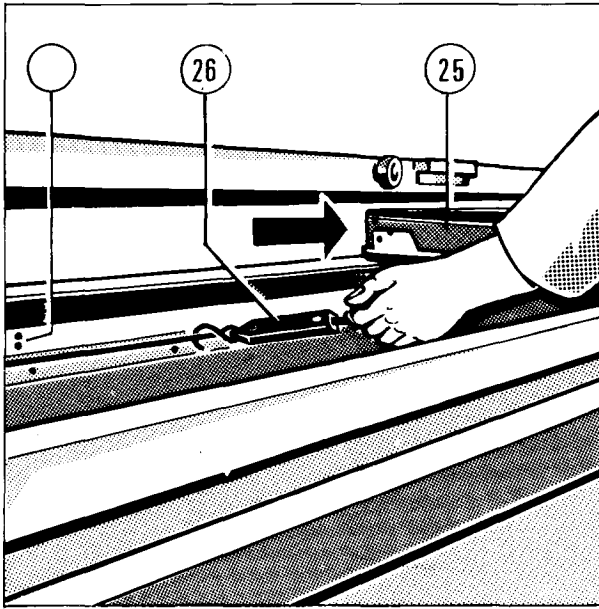


Fig. 7

2.6 Installing of Trim Covers

Reinstall table base trim covers. Refer to (Fig. 1/item 1).

3. Adjustments

3.1 Adjusting the Vertical Position

Put unit into vertical position. Visually check vertical position on the angle indicator and with water level holding against profile rail. In the true vertical position the switch trigger (item 27) must be actuated. If not, adjust the trigger by tilting the table to horizontal position, loosen the screws and move the trigger in desired direction. Refer to (Fig. 8/item 27). Tighten trigger in proper location. Repeat this procedure several times.

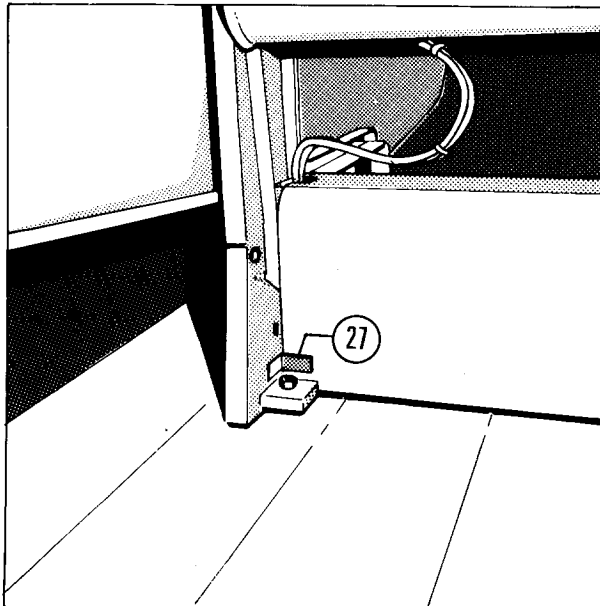


Fig. 8

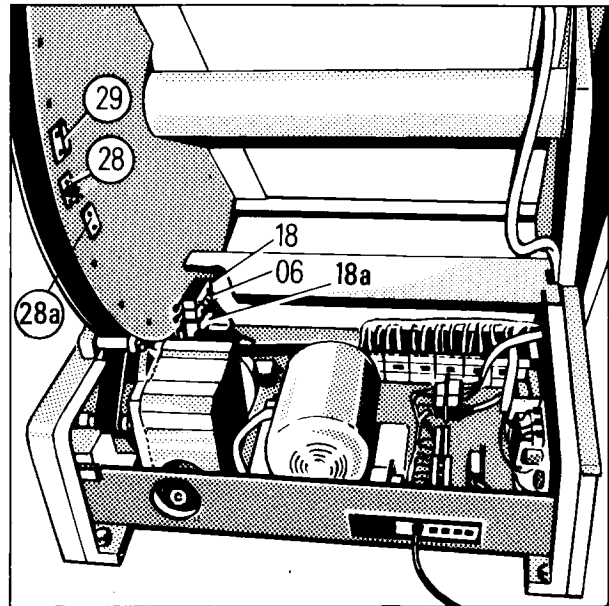


Fig. 9

3.2 Adjustment of Horizontal Position

Put unit into horizontal position. Check position on angle indicator and with water level holding against profile rail. Adjust, if necessary actuator (Fig. 9/item 28 and 28a) for the switches 18 and 18a so that table will stop automatically in horizontal position whenever the table is driven out of Trendelenburg or vertical position. Repeat this procedure several times. In horizontal position both switches 18 and 18a must be actuated and the switch lever must still have a stroke left of 3 mm.

3.3 Adjustment of Trendelenburg Position

Drive unit into Trendelenburg position (approx. -15 degrees). Adjust, if necessary actuator (Fig. 9/item 29) so that the unit will stop automatically in Trendelenburg position. Switch 06 must be actuated.

4. Maintenance Procedure

4.1 Physical and Electrical Checks

Note: The maintenance schedule described below is to be accomplished at 12-month intervals. If functional tests require power, turn off power immediately afterwards defective parts must be replaced by genuine spare parts according to the spare part list. Use only non-acid grease for maintenance. Do not grease or oil ball bearings with sealed washers.

Preparations

- Place table in vertical position and turn off power.
- Remove the trim cover (Fig.10/item 1) from the table base.
- Take off segment cover (Fig. 10/item 2).
- Unhook the chain cover belt (Fig. 11/item 3) at point A, and fold it back.
- Turn on power and drive the table to horizontal position. Watch the chain cover belt strip while unit is in motion.

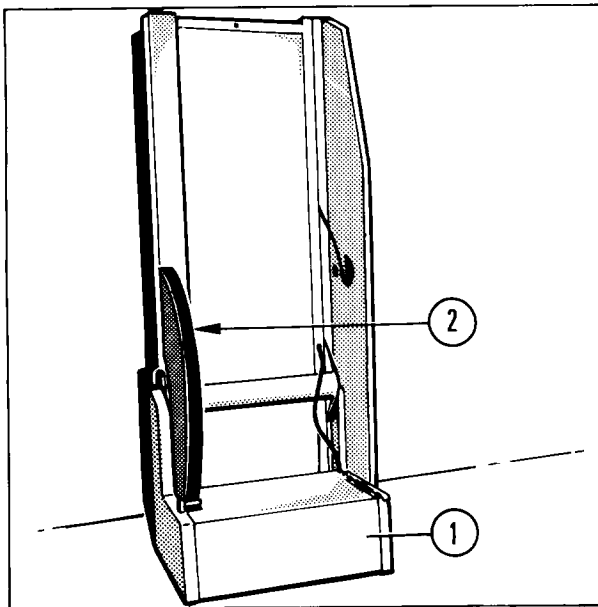


Fig. 10

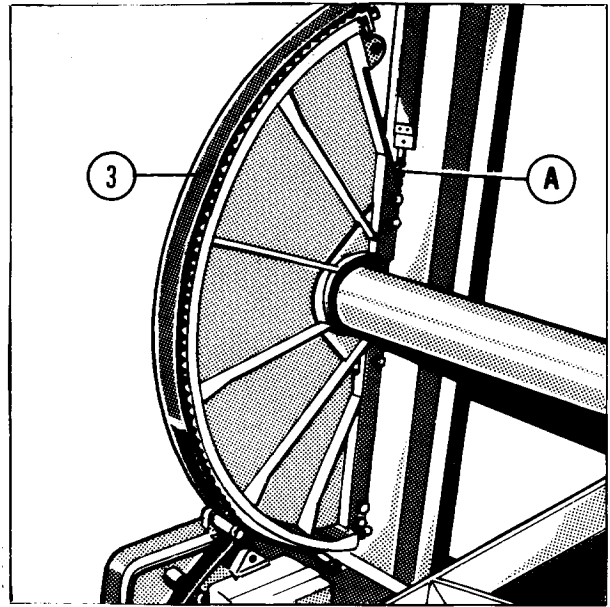
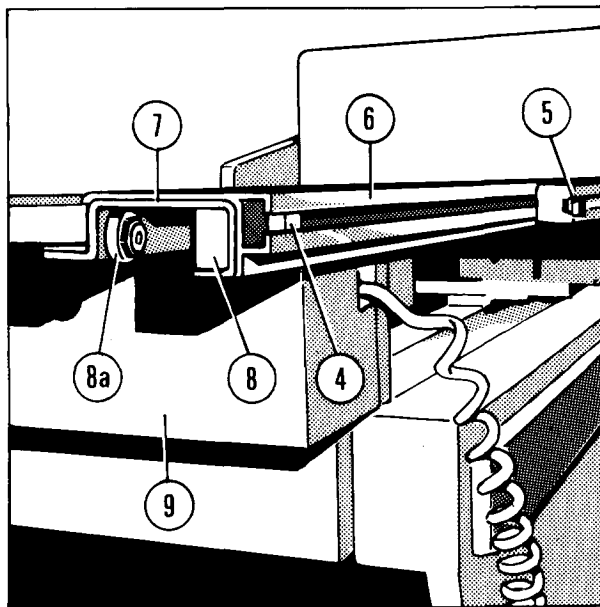


Fig. 11

- Remove end stop (Fig. 12/item 4) at the head side of the table.
- Remove the control handle.
- Slide out the foot rest by pressing the lever (Fig.12/item 5).
- Turn off table power (main switch).
- Remove the end stops (Fig. 12/item 8) from both profile rails (item 7) at the head end and foot end side and take out the roller bearings (item 8a).
- Slide out the table top and store it on a safe place. If this can not be done the normal way, proceed as follows: Move the table top to the head end. Take out the plastic rollers (Fig. 24/item J) and the ball bearing (item L). Move the table top back towards the food end until the switch (Fig.24 view A/item 66) becomes accessible. Lift up the table top from the operator side until the top can be removed completely.
- Unscrew the cover (Fig. 12/item 9).
- Remove the end switches with housing (Fig. 13/item 10) on both sides of the table base, by removing the snap ring (item 15), taking off the washer and pull out the bolt (item 16). Turn out the flat head screw (item 17).
- Check the floor mounting bolts upon firmness. Tighten if loose. Torque wrench 25 Nm.
- Tighten all mounting screws of the electrical components inside the table base.
- Tighten all set screws of contactors and terminal strips.



Pos. 12

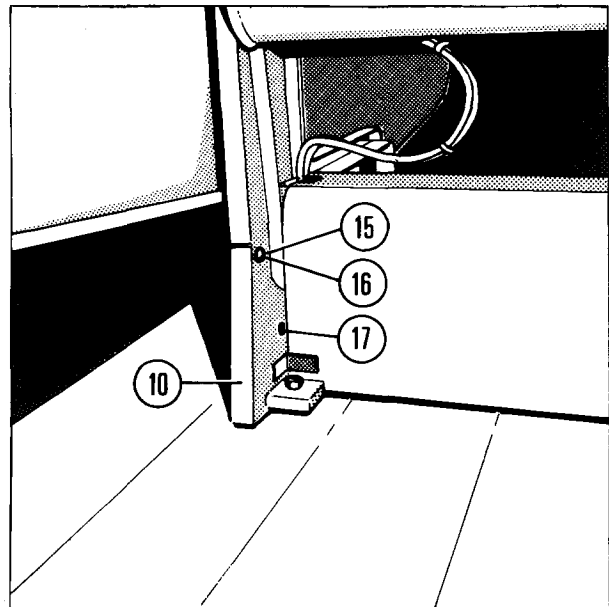


Fig. 13

Table Drive System

- Check condition of the V-belts (Fig. 14/item 20).
- Check the belt tension by applying 30 N force with the spring scale at the center of each belt. Max.deviation 20 mm (25/32"). If necessary, readjust belt tension by turning the tensioning screw (Fig.14/item 21) after loosening the motor mount. Tighten mounting screw and repeat the test.
- Check the brake. To do this, put a string around both belts and hook up a spring scale. Apply a force of 80 N to the belts and confirm that the pulley can not be rotated. Adjust the brake, if necessary, by turning the nut (Fig. 15/item 22) cw.
- Check condition of the switches 06a/06b and the switching rod (side view A of Fig. 15/item 23). The switches and the rod must not show any signs of wear.
- Check the mounting screws of the switches 06a/06b.
- Check switch function and spring action audibly and visibly. After appr. 5 mm of spring travel at least one of the switches must actuate. The switching rod should move without binding.
- Check function of the switches (Fig. 15/item 24) and tighten mounting screws if necessary.
- Check the condition of the chain (Fig. 16/item 25). The chain links should not show any traces of wear or damage.

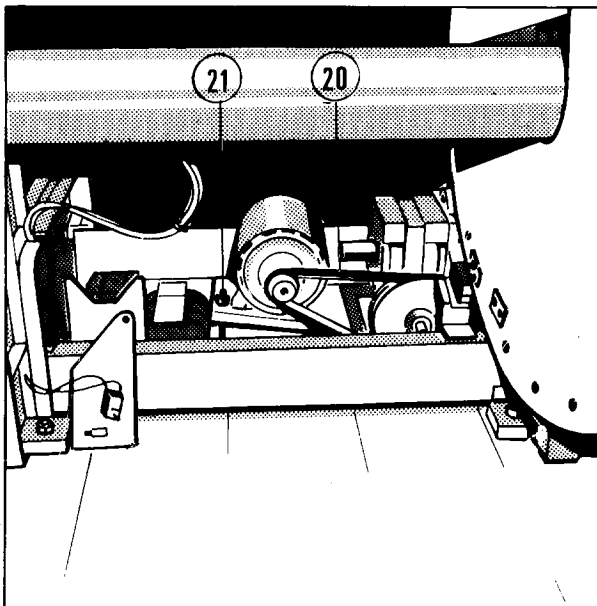


Fig. 14

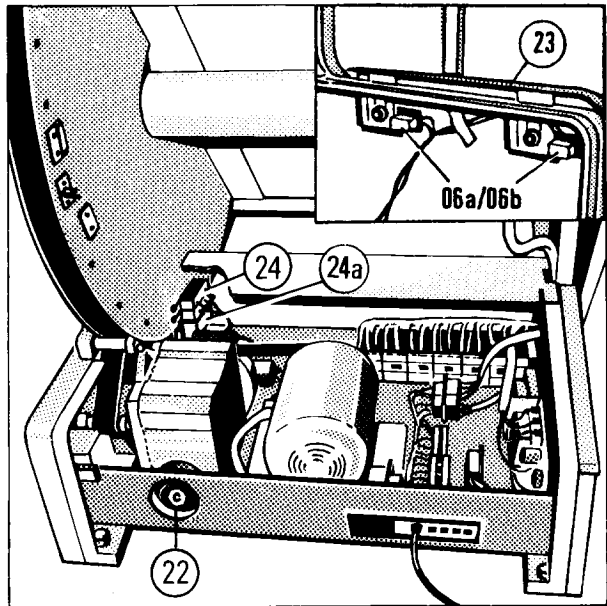


Fig. 15

- Check the condition of the chain (Fig. 16/item 25). The chain links should not show any traces of wear or damage.
- Check chain tension. The chain should be immobile on the segment (Fig. 16/item 26). Retighten if necessary. Therefore loosen the lock nut and tighten clamping stud as required. Retighten the lock nut. (Fig. 16/item 27).
- Check condition of cogwheels (Fig. 16/item 29) for traces of wear or damage.
- Check set screw on shaft (Fig. 16/item 28) for proper seat.
- Check the shoulder bolts of the guide rollers (Fig. 16/item 30) for the segment cover upon proper seat.
- Lubricate the chain lightly.
- Check the segment cover (Fig. 16/item 31) and the spring for wear or damage. Replace if necessary.
- Reattach the segment cover at point A (Fig. 16).
- Temporarily actuate switches 05 and 05a in (Fig. 17).
- Turn on the main switch and table power. Note: By the next checking procedure there is no automatic shutdown in the end positions. Turn off the power by hand before the end position is reached.
- Press switch and move the table through the entire travel range.
- Check on smooth travel without interruption of knocking noises. If there are any decrease chain tension, ref. to check chain tension.
- Drive table to appr. 80 degrees and turn off power.

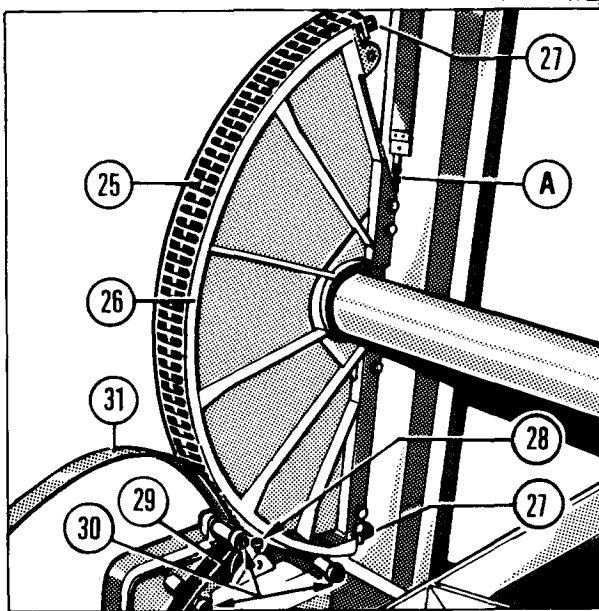


Fig. 16

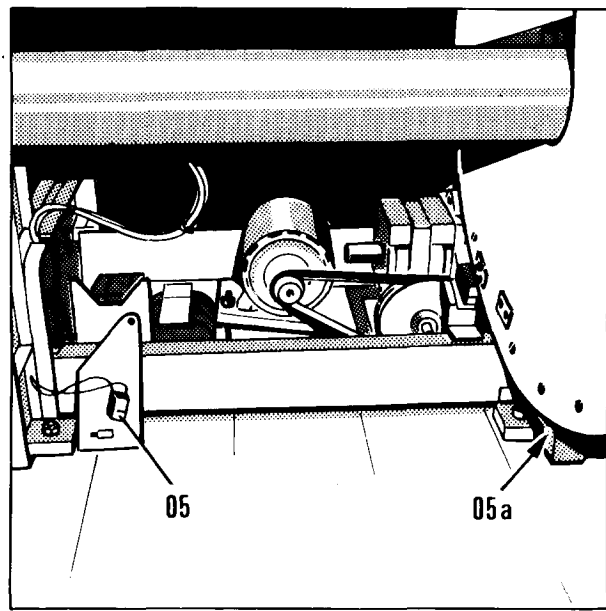


Fig. 17

- Reinstall segment cover (Fig. 18/item 2).
- Turn on power and drive table to horizontal position.
- Check and adjust table positions as described in chapter 3.
- Check safe function of the switching rod (Fig.18/item 23). Therefore drive table into horizontal position and turn off power. Jumper switch 06 in Fig.18. Turn on power and continue carefully to drive table into Trendelenburg position. If Trendelenburg position is reached the switching rod (Fig. 18/item 23) must actuate and stop all motions. Drive table into vertical position.

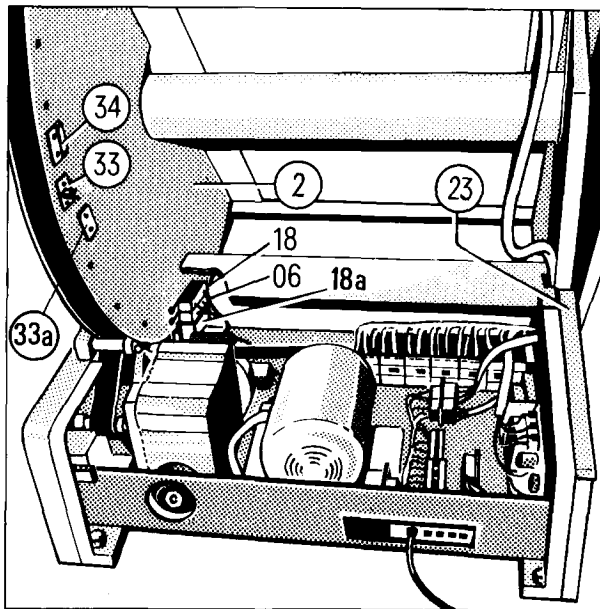


Fig. 18

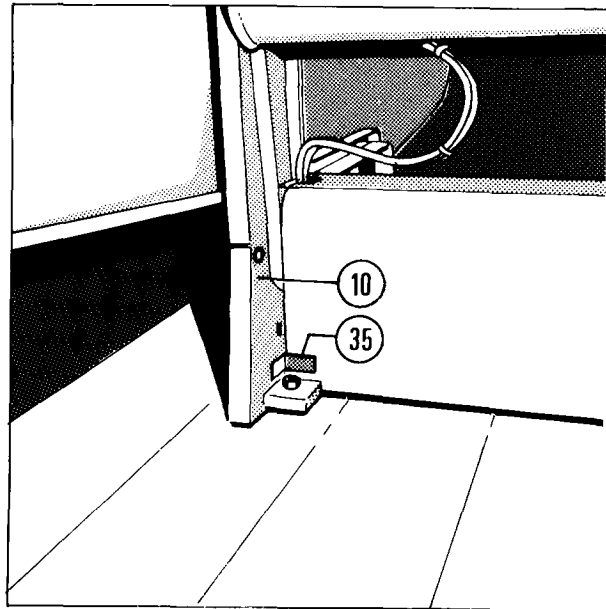


Fig. 19

- Turn off power and remove jumper from switch 06.
- Install table base cover and end switches with housings (Fig. 19/- item 10).
- Check the switching action of the end switches.
- Check with table in true vertical position the switch actuators (Fig.19/item 35). They must actuate the switches 05 and 05a reliably and simultaneously.

Bucky Carriage

- Drive table to horizontal position and turn off power.
- Check the Bucky carriage for smooth and easy movement over the entire travel range. Determine defective bearing (if any) and replace it.
- Clean and lightly grease the running tracks.
- Check play. Tighten bearings with eccentric if slack.
Note: Correctly adjusted bearings can barely be turned by hand.
- Check bumpers (Fig. 20/item 43) on firmness and damage.
- Switch on equipment.
- Check performance of brake. Adjust, if necessary, by loosening lock nut (Fig. 21/item 44 and tighten set screw (item 45) and lock nut again.

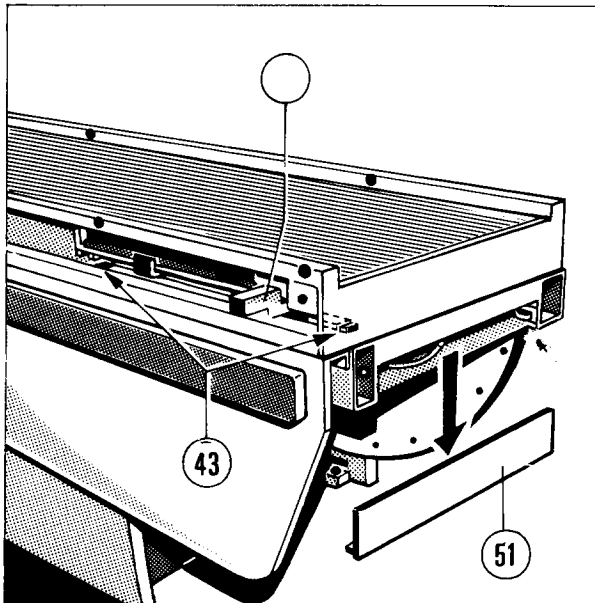


Fig. 20

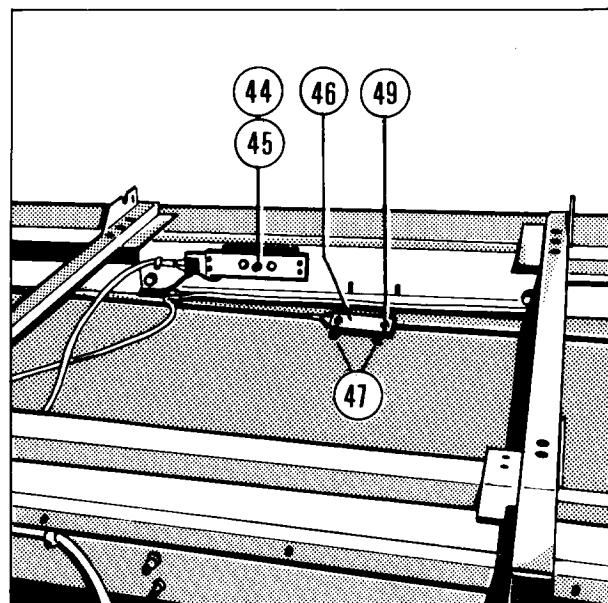


Fig. 21

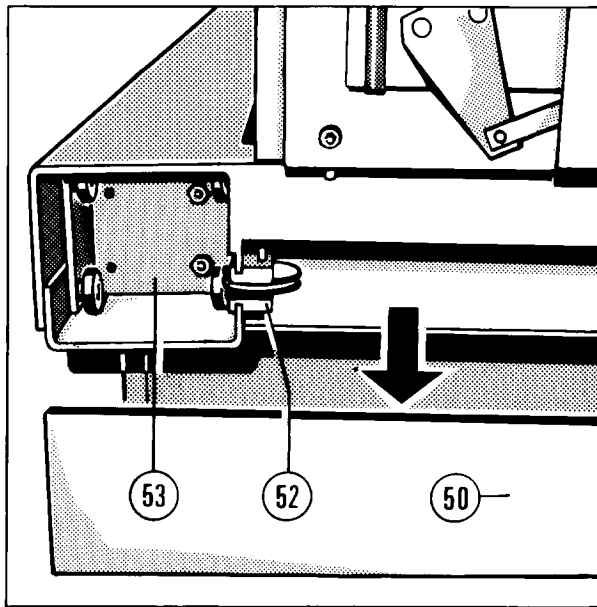


Fig. 22

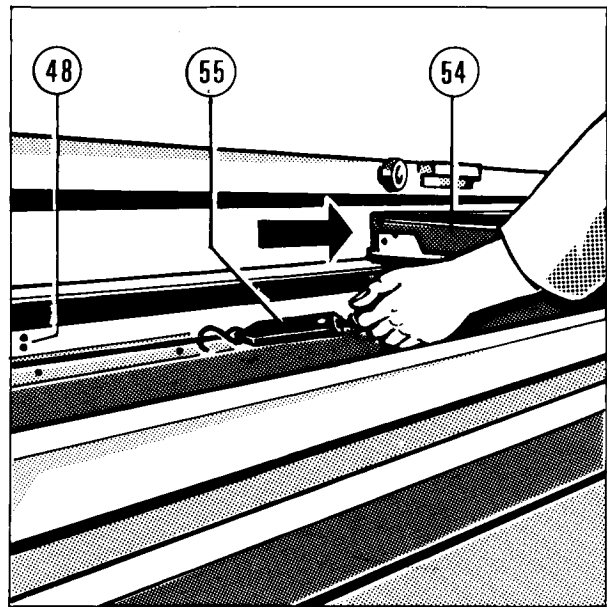


Fig. 23

Counterweight

- Take off the covers at foot end side (Fig. 22/item 50) and head end side (Fig. 20/item 51).
- Remove the wire rope connector (Fig. 21/item 46) in downward direction after loosen the screw (Fig. 21/ item 49).
- Remove the wire rope and take out the return pulley (Fig. 22/item 52) with pedestal.
- Remove the counterweight (Fig. 22/item 53).
- Check and replace any defective bearings.
- Reinsert counterweight and install return pulley with pedestal. Establish wire rope connection (Fig.21/item 46) and tighten clamping stud thru hole (Fig. 23/item 48).
- Put covers back on at head end (Fig. 20/item 51) and foot end side (Fig. 22/item 50).
- Check the wire rope for proper tension. Therefore move the Bucky carriage (Fig. 23/item 54) all the way to the foot end position. Hook up spring scale (Fig. 23/item 55) in the middle of the visible length of the wire rope. Max deflection of 8 cm when applying a force of 3 kg to the spring scale.
- Readjust if necessary. Therefore loosen screws and unhook the wire rope connector (Fig.21/item 46). Adjust the wire rope tension by opening the clamping stud (Fig./21 item 49) and pull thru the rope as necessary. Tighten clmping stud and remount rope connector.

Table Frame

- Lub the guide bar (Fig. 24/item 60) at the foot and head end.
- Take off the cover (Fig. 24/item 39).

- Turn on the equipment and check the lateral locks (Fig. 24/item 40) at head and foot end for proper function. If necessary readjust by loosening the lock nut and tighten set screw (Fig. 24/items 61 and 62). Tighten lock nut again.
- Check bumper stops (Fig. 24/item 63) at head and foot end side for proper seat and damage. Replace if necessary.
- Remount cover (Fig. 24/item 39).

Table Top Lock System

- Check both plastic rollers (Fig. 24 view A/item 64) for traces of wear and replace if necessary.
- Check all ball bearings for table top movements on smooth running and damage.
- Check the catches (Fig. 24 view B/item 65) for traces of wear and replace if necessary. Therefore remove snap ring (view B/item 65a) and take out the pin. To check proper functioning of the catches turn on power actuate switch at the control handle and the switch (view A/item 66). The catches should go in and out.
- Actuate switch at the control handle and check the switches (Fig. 24 view C/item 67). The motor (item 68) should start running and the cam is actuating one of the 4 switches at a time.
- Lub the wire rope.
- Check the screen and adjust tension if necessary. To do this open the mounting screws along the table frame and tighten screen by turning the screw (Fig. 24 view H/item 72). Retighten mounting screws. Turn off equipment.
- Check switch actuator blocks (Fig. 24 view D and E/items 73 and 74) upon tight mounting.
- Switch on unit and check the longitudinal brakes (Fig. 24 view F/- item 75) for proper functioning that means for correct holding force. Approx. 200 N. If adjustment is necessary slide away the table top and adjust holding force by loosening lock nut (Fig. 24 view F/item 76) and turning the set screw (item 77) cw. Tighten lock nut.
- Mount the bearings (Fig. 24 view G/item 78) to table frame and adjust with eccentric if slack.
- Check locking pins if they coincide with the holes in the table top. If not, adjust by loosening the 4 screws (Fig. 24 view C/item 70) and move the entire mounting bracket to the left or right as required. Tighten the screws.
- Mount the table top end stops (Fig. 24 view G/item 79)

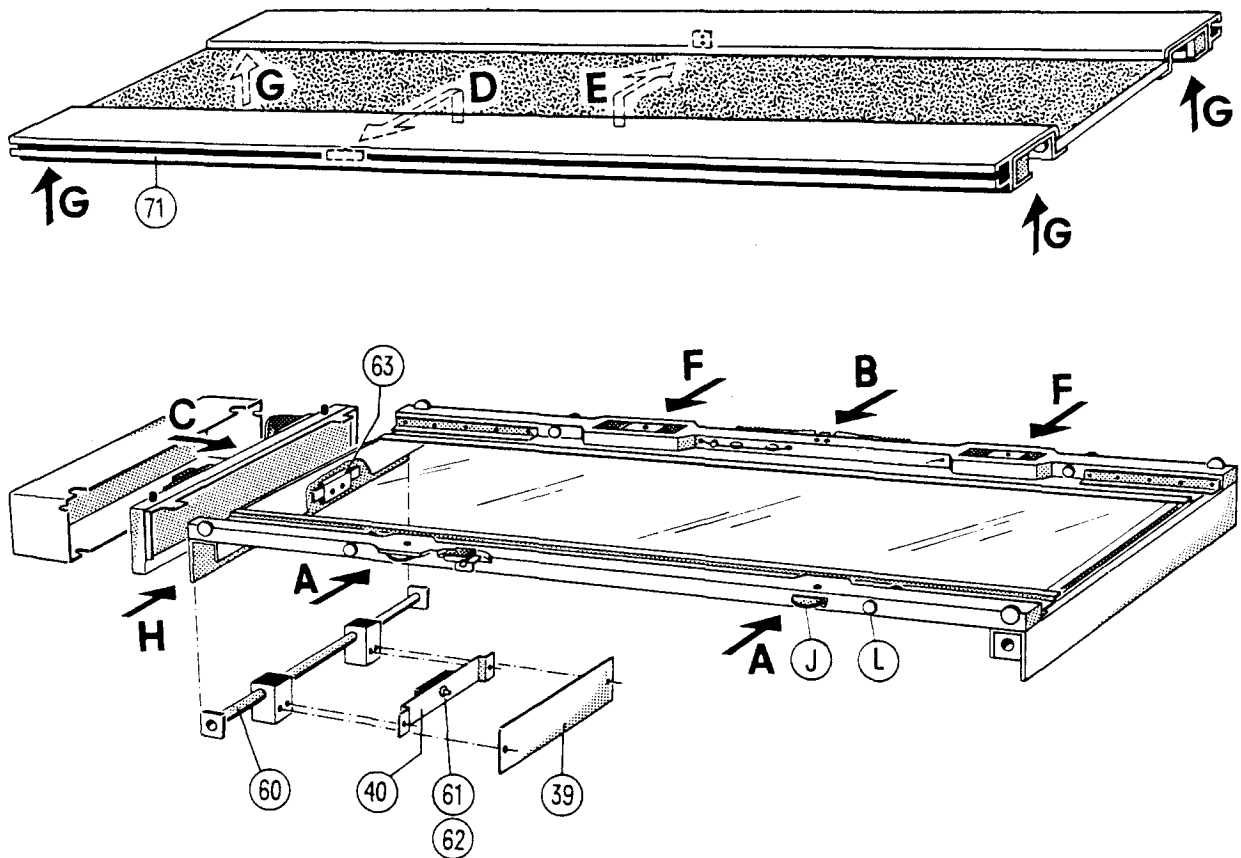
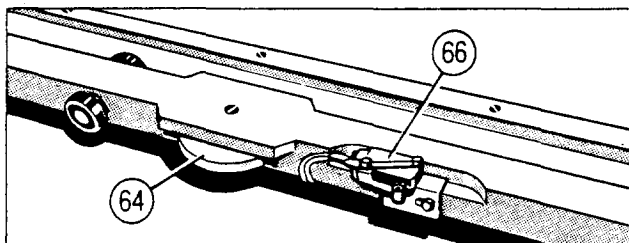
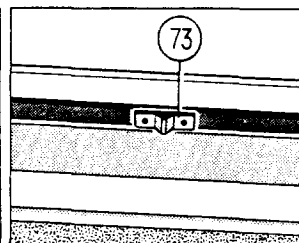


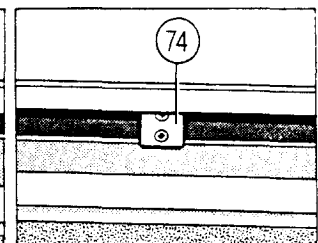
Fig. 24.



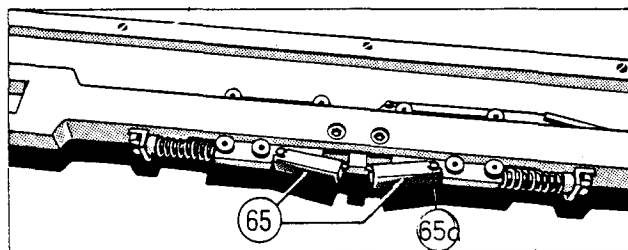
View A



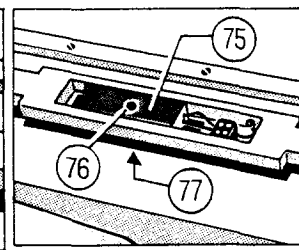
View D



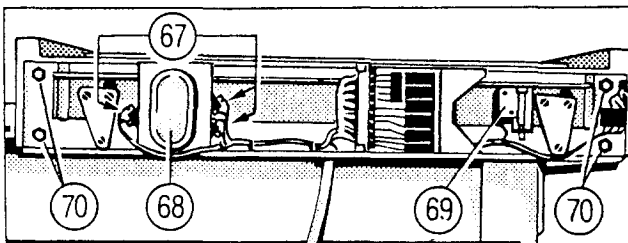
View E



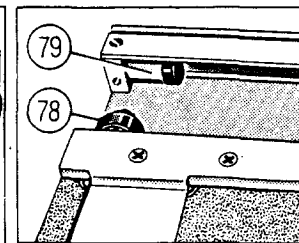
View B



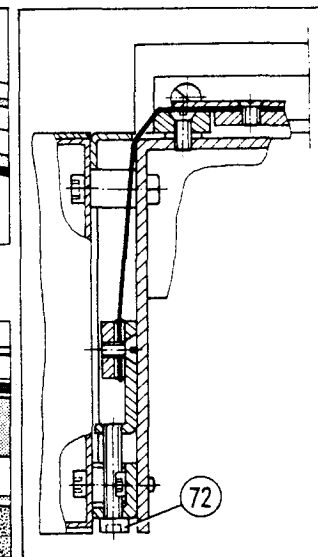
View F



View C



View G



View H

General

- Remount all covers and components
- Clean the unit

Foot rest

- Take off trim cover (Fig. 26/item 82).
- Tighten all screws.
- Oil and check wire rope. Remove the foot rest.
- Check the rollers (Fig. 27/item 83 and Fig. 28/item 83) for traces of wear and replace if necessary.

- Check the locking levers (Fig. 27/item 86) upon damage.
- Check guide blocks (Fig. 27/item 84 and Fig. 28) for signs of wear und proper function. Replace if necessary.
- Remount trim cover.
- Put the foot rest back into profile rails.
- Adjust the turn buckle (Fig. 26/item 87) for proper function.

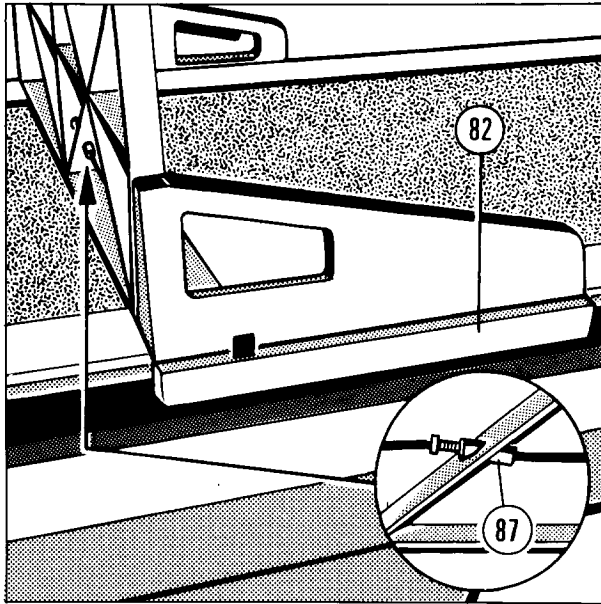


Fig. 26

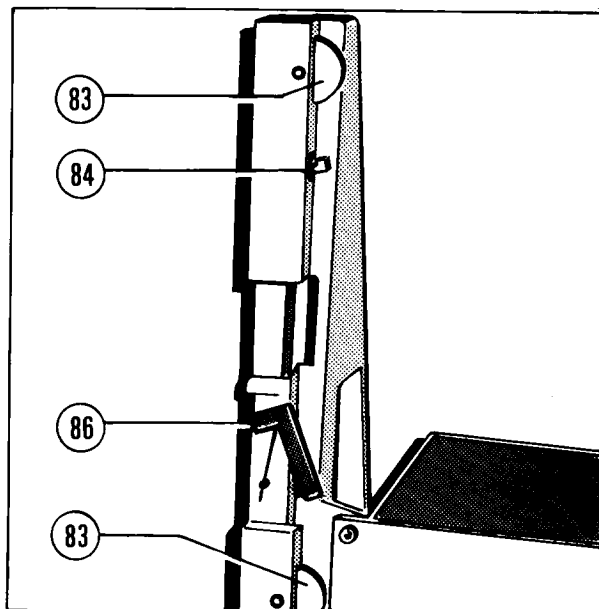


Fig. 27

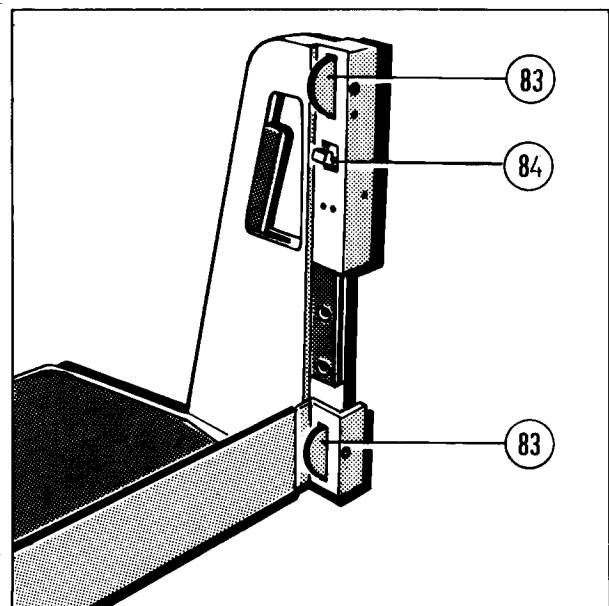


Fig. 28

4.2 Functional Tests

Table Movements

- Turn on unit and check all table movements. Are they smooth and easy?
- Automatic stopping in vertical, horizontal and Trendelenburg position?
- Safe operation of the control handle?

Table Top

- Check performance of table top over entire travel range in longitudinal and lateral direction.
- Moving smooth and running without noise?
- Buffered end stops for longitudinal and lateral movement?
- No tendency to self-positioning?
- Accurate locking in working position?
- Quiet table top locking system?
- Easy movement off locking pins?
- Proper fit of the control handle?
- End stops for control handle in place?

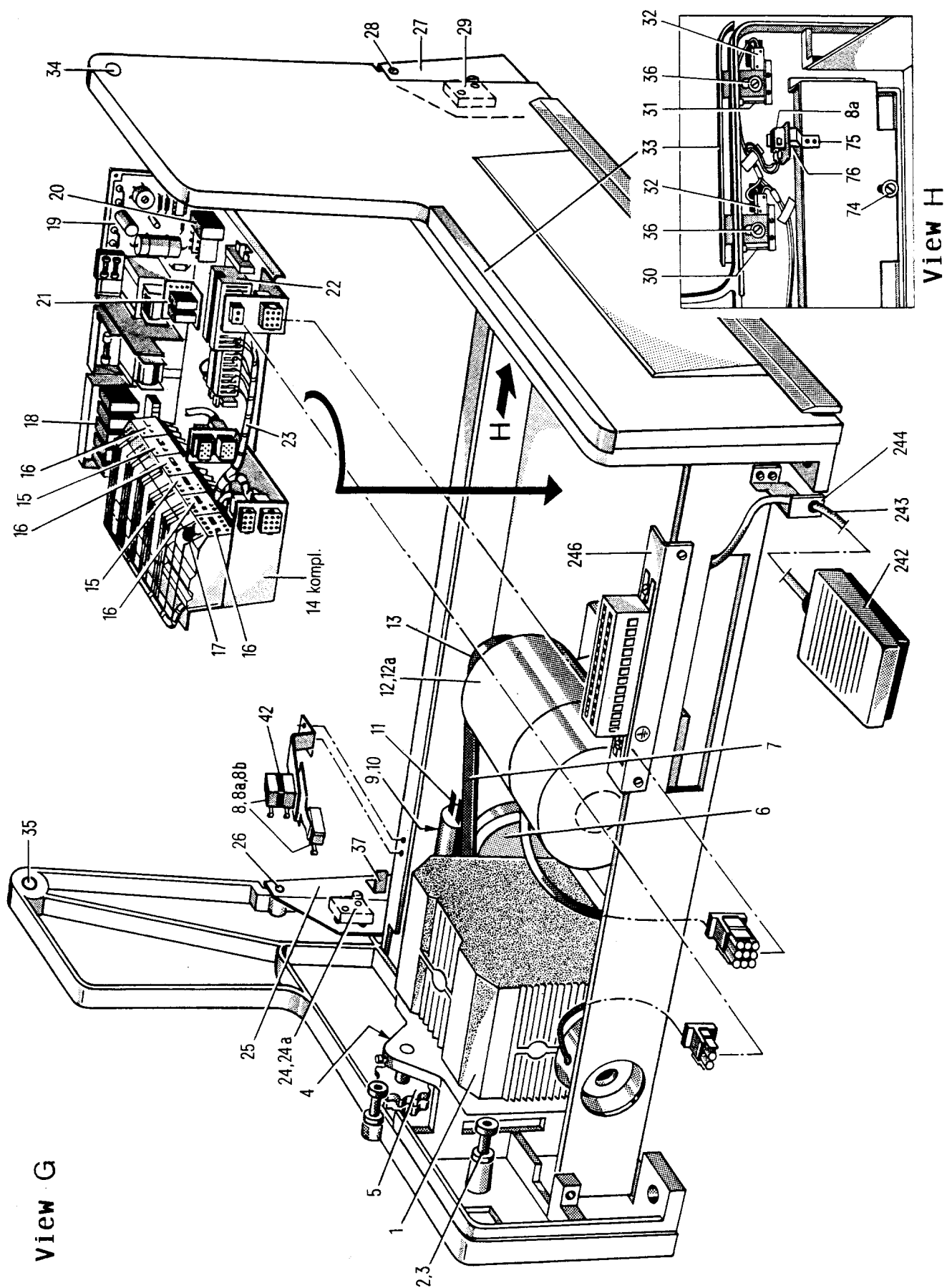
Bucky Carriage

- Check performance of Bucky carriage over entire travel range.
- Moving smoothly?
- Running without noise?
- Accurate braking in any working position?
- Make sure there is no slipping in Trendelenburg position!
- Accurate releasing of brake?

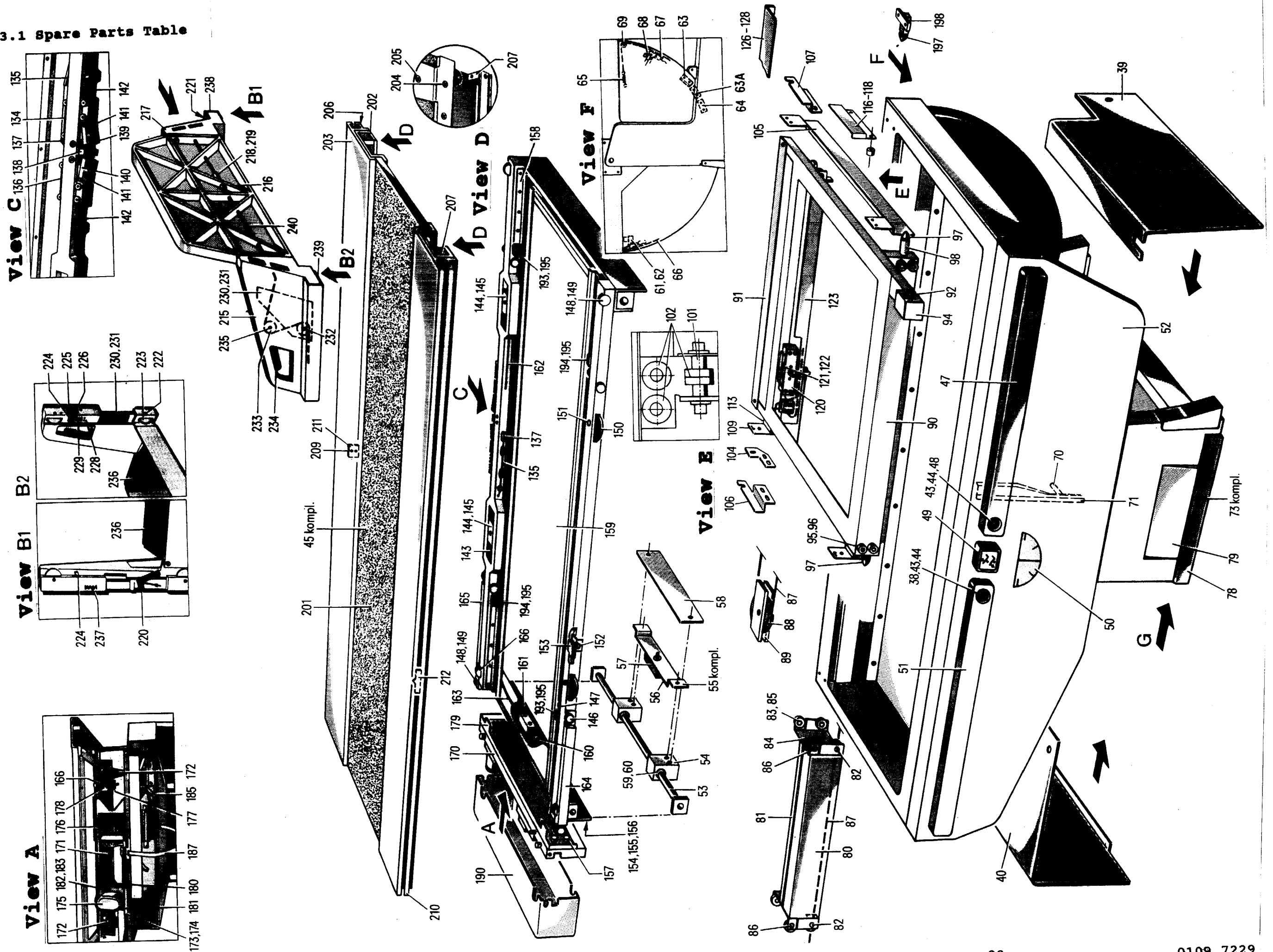
Foot rest

- Move over entire travel range of the foot rest.
- Safe locking in all working positions?
- Make sure there is no slipping in Trendelenburg position!
- End stops are tight?
- Can the foot rest be removed unintended?

4.3 Spare Parts Table Base



4.3.1 Spare Parts Table



4.3.2 Spare Parts List

Part Names / Ordering Numbers

In case of defects parts may only be replaced by original parts listed below. When ordering parts always indicate serial number of unit, name and complete number of part. The exchange of parts or components may only be carried out by ourselves or by qualified personnel being authorized to do so. See also chapter: "Safety Notes".

Item	Designation	Order No.
1	Gear box with brake	0006 0220
1a	Brake	0006 0350b
2	Shoulder screw	0109 0036
3	Pulley	0109 0037
4	Drive sprocket	0109 0076
5	Return sprocket	0109 0077
6	Pulley	0109 0066
7	V-belt 8 x 710	2300 0009
8	Switch up to serial no. 865	0006 0001
8a	Switch from serial no. 866	0006 0079b
8b	Actuator from serial no. 866	0006 0450
9	Capacitor	0006 0218a
10	Capacitor	0006 0219a
11	Cable	0109 0088
12	Motor 50 Hz	0006 0221a
12a	Motor 60 Hz	0006 0221b
13	Pulley	0109 0067
14	Control panel, compl.	0109 0030
15	AC relay	0006 0185c
16	AC relay	0006 0185b
17	Varistor	0006 0222
18	Relay board	0109 0035a
19	Power supply	0109 0080
20	Klixon relay 220V 50 Hz	0006 0223a
20a	Klixon relay 117V 60 Hz	0006 0223b
21	Relay board	0109 0143
22	Terminal strip	0109 0078
23	Harness	0109 0033
24	Switch up to serial no. 865	0006 0001
24a	Switch from serial no. 866	0006 0184
25	Flap	0109 0062a
26	Shaft	0109 0063a
27	Flap	0109 0062b
28	Shaft	0109 0063b
29	Switch	0006 0184
30	Spring	0005 0040b
31	Spring	0005 0040f
32	Switch	0006 0079
33	Actuator	0109 0050
34	Bushing	0005 0162bl
35	Bushing	0005 0162bm

Item	Designation	Order no.
36	Bushing	0109 0053
37	Bracket	0109 0064
38		
39	Front cover	0109 0027
40	Rear cover	0109 0028
41		
42	Spacer	0109 0893
43	Circuit component	0006 0373
44	Bulb for emergency stop	0006 0374
45	Table top, compl.	0109 0340
46	Control handle, compl.	0109 0350a
47	Bar	0109 0128b
48	Emergency stop	0006 0372
49	Switch	0109 0148
50	Angle indicator	0109 0130
51	Bar	0109 0128a
52	Cover	0109 0124
53	Guide shaft	0622 0528
54	Bearing housing	0622 0085
55	Lateral brake, compl.	0109 0290
56	Laminated spring	0105 0153
57	Solenoid	0105 0148
58	Lid	0109 0289
59	Bearing	0005 0191a
60	Snap ring DIN 471 32 x 1.5	2200 0223
61	Bracket	0109 0043
62	Chain mount	0109 0039
63	Actuator	0109 0061
63a	Actuator	0109 0096
64	Actuator	0109 0059
65	Spring	0005 0040j
66	Strip, compl.	0109 0047
67	Chain	0005 0132
68	Chain tensioner	0109 0040
69	Pulley	0109 0049
70	Cam	0109 0137
71	Support	0109 0136
72		
73	Foot switch compl.	0109 0910
74	Passure spring	0005 0136u
75	Switch support	0109 0917
76	Switch bracket	0109 0916
77		
78	Swich actuator	0109 0920
79	Foot switch plate	0109 0913
80	Strut	0109 0167
81	Counterweight	0109 0168
82	Sliding nipple	0109 0164
83	Sleeve	0109 0166
84	Bearing plate	0109 0163
85	Ball bearing 6001-2Z	2400 0017

Item	Designation	Order No.
86	Sliding nipple	0109 0165
87	Wire rope	0109 0816
88	Pulley	0105 0681
89	Pulley support	0109 0173
90	Frame	0109 0802
91	Cover	0109 0813
92	Momentary switch	0006 0084b
93		
94	Switch housing	0109 0815
95	Eccentric bushing	0622 0106a
96	Ball bearing 6001-2Z	2400 0017
97	Bumper	0005 0103a
98	Spacer	0109 0809
99		
100		
101		
102	Ball bearing 6001-2Z	2400 0017
103	Eccentric Bushing	0622 0106b
104	Mounting bracket, LF + Phi	0109 0826
105	Bracket, Siemens	0109 0823
106	Mounting bracket, Picker	0109 0827a
107	Mounting bracket, Picker	0109 0827b
108		
109	Nutplate, Siemens	0109 0821
110		
111		
112		
113	Spacer, Siemens	0109 0822
114		
115		
116	Cover, LF	0622 0199
117	Cover, Siemens	0627 0518
118	Cover, ES	0109 0158b
119		
120	Plug holder	0109 0808
121	Spring	0105 0153
122	Solenoid	0105 0148
123	Connecting Bracket	0109 0810
124		
125	Cable	0105 0189
126	Cover plate, LF	0622 0121
127	Cover plate, Picker	0109 0468
128	Cover plate, Philips	0622 0122
129	Cover plate, Villa	0109 0844
130		
131		
132		
133		
134		

Item	Designation	Order No.
135	Wire rope	0109 0273
136	Slider	0109 0274
137	Nipple	0109 0272
138	T-Bracket	0109 0279
139	Flat piece	0109 0278
140	Spring	0005 0136o
141	Catch	0109 0276
142	Spring	0005 0042u
143	Terminal strip	0006 0042
144	Solenoid	0622 0530
145	Spring	0622 0531
146	Bearing with eccenter	0622 0555
147	Bearing with bushing	0622 0556
148	Ball bearing 608-2Z	2400 0006
149	Eccentric bushing	0109 0345
150	Guide roller	0622 0514
151	Shaft	0622 0515
152	Actuator spring	0006 0167
153	Switch	0006 0006
154	Bracket	0109 0297
155	Connector	0109 0302
156	Nut plate	0109 0296
157	Bushing	0109 0301
158	Bracket	0109 0286
159	Protective foil	0109 0294
160	Bumper support	0622 0156
161	Rubber metal bumper	0005 0108
162	Cable	0109 0307
163	Cable	0109 0306
164	Boom	0109 0371
165	Boom	0109 0372
166	Eccenter adjusting ring	0109 0373
167	Actuating rod	0109 0232
168		
169		
170	Interlock, compl.	0109 0190
171	Rest bracket	0109 0192
172	Gusset plate	0109 0201
173	Crank shaft	0109 0218
174	Connector	0109 0197
175	Drive, compl.	0109 0200
176	Relay board	0109 0226
177	Actuator spring	0005 0042c
178	Switch	0006 0079
179	Cover frame	0109 0228
180	Switch	0006 0079
181	Nut plate	0109 0214
182	Index bolt	0109 0212
183	Actuator bar	0109 0211
184		

Item	Designation	Order No.
185	PC board	0109 0155
186		
187	Harness	0109 0034
188		
189	Strain relief	0109 0223
190	Cover	0109 0225
191		
192		
193	Holder	0109 0375a
194	Holder	0109 0375b
195	Bumper	0109 0376
196		
197	Bumper	0005 0103
198	Stop	0109 0441
199		
200		
201	Table top	0109 0342a
202	Table frame	0109 0341
203	Profile rails	0622 0549
204	Self-threading screw 4,5x20	2023 0006
205	Screw B 4.2x13	2022 0001
206	Stop	0109 0419
207	Stop	0622 0550b
208		
209	Screw DIN 963 M6 x 8	2020 0075
210	Stop	0105 0160
211	Actuator	0109 0344
212	Actuator	0109 0343
213		
214		
215	Strut	0109 0403
216	Footrest	0109 0405
217	Strut	0109 0404
218	Nipple	0109 0433
219	Screw	0109 0432
220	Interlever	0109 0417
221	Lever	0109 0421
222	Shaft	0109 0427
223	Pulley	0109 0412
224	Lock piece	0109 0416
225	Shaft	0109 0414
226	Link	0109 0415
227		
228	Bearing	0109 0408
229	Spring	0005 0136j
230	Nutplate	0109 0430
231	Nutplate	0109 0428
232	Shaft	0109 0427
233	Pulley	0109 0423
234	Lever	0109 0407

Item	Designation	Order No.
235	Shaft	0109 0411
236	Cover	0109 0406
237	Spring	0005 0136m
238	Cap	0109 0431b
239	Cap	0109 0431a
240	Wire rope	0109 0424
241		
242	Foot switch	0109 0925
243		
244		
245		
246		
247		
248		
249		
250		

4.4 Maintenance sheet

Maintenance work has been performed according to the enclosed instructions. Defective parts have been replaced exclusively by original spare parts as contained in the Spare Parts List.

Parts replaced:
(Only state item No.)

.....
Date Firm (Stamp) Signature

Parts replaced:
(Only state item No.)

.....
Date Firm (Stamp) Signature

Parts replaced:
(Only state item No.)

.....
Date Firm (Stamp) Signature

Parts replaced:
(Only state item No.)

.....
Date Firm (Stamp) Signature

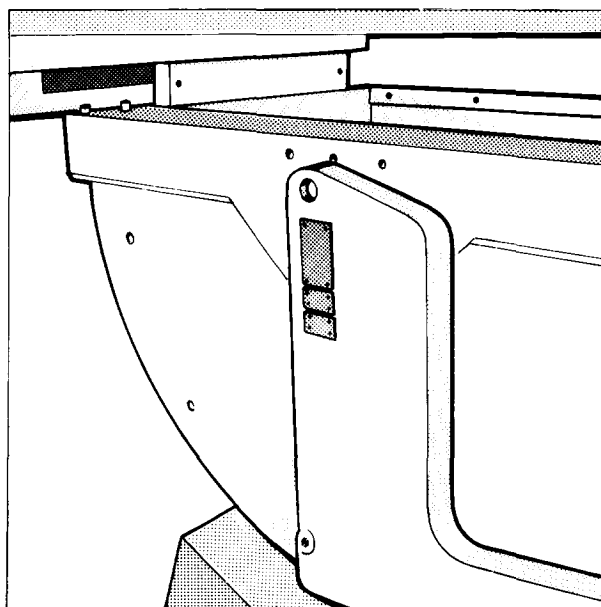
Parts replaced:
(Only state item No.)

.....
Date Firm (Stamp) Signature

Parts replaced:
(Only state item No.)

.....
Date Firm (Stamp) Signature

4.5 Location of Model-Number Plate



Model No.		
Serial No.		
Input		Voltage
<input type="checkbox"/> Phases		Hertz
Amperes		
Date Mfg.		
This product complies with applicable standards under "21 CFR Sub-Chapter J"		
Made by Hans Pausch Graf-Zeppelin-Str. 1 8520 Erlangen W-Germany		

17959

Specifications are subject to change without notice.

Hans Pausch X-Ray Equipment D-91056 Erlangen, Germany
Manufacturer TV/Ru